

Fig. 1

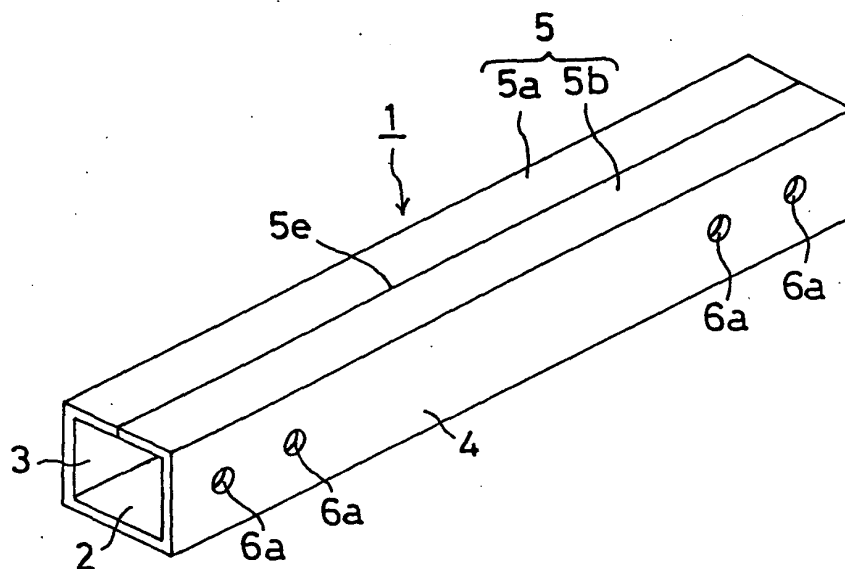


Fig. 2

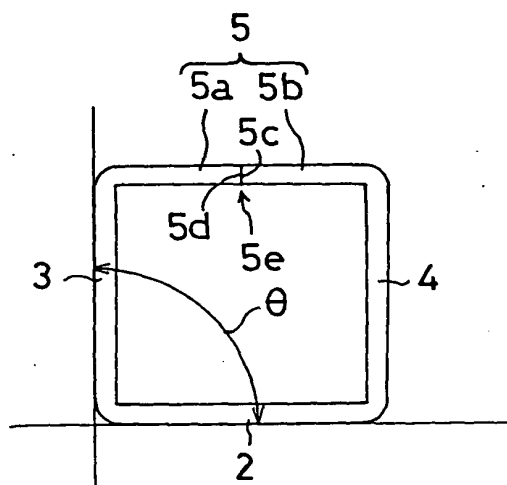


Fig. 3

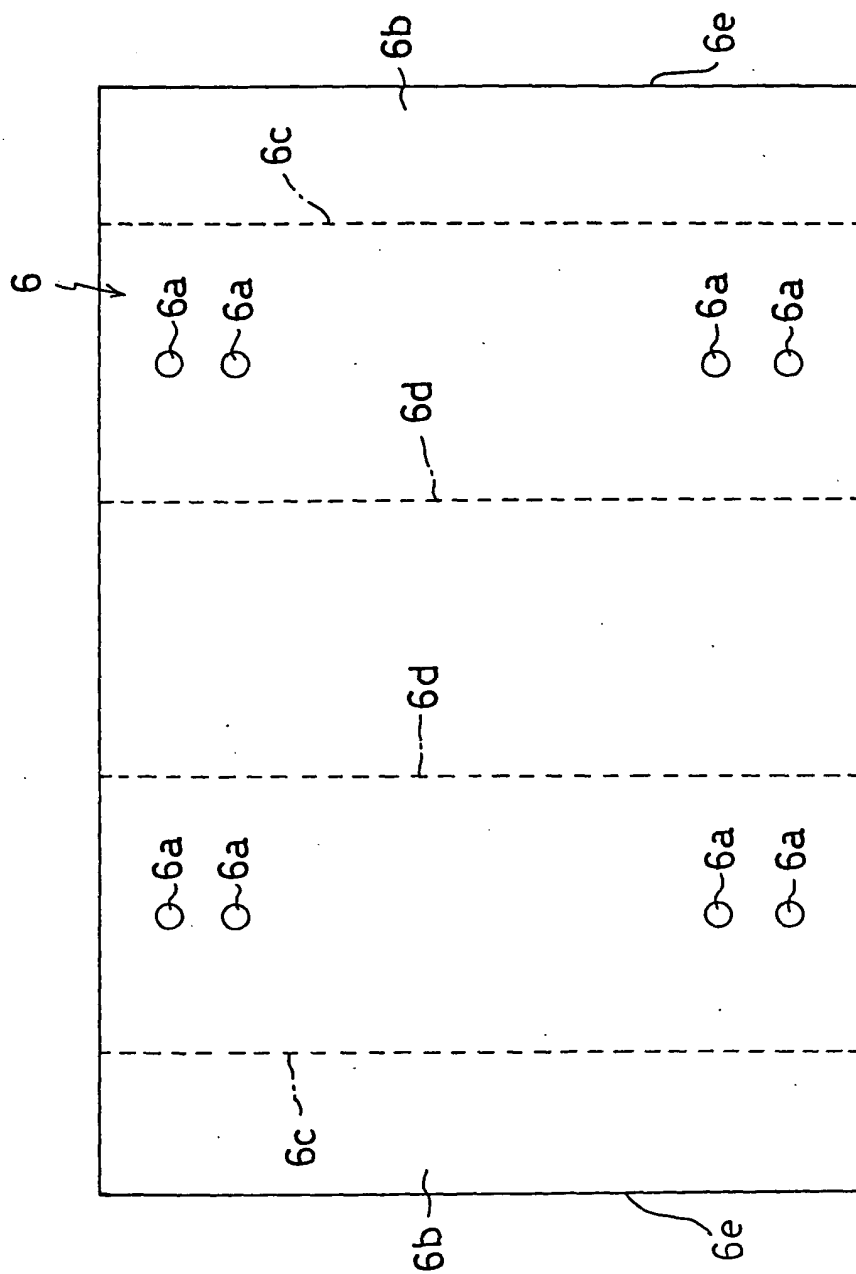


Fig. 4

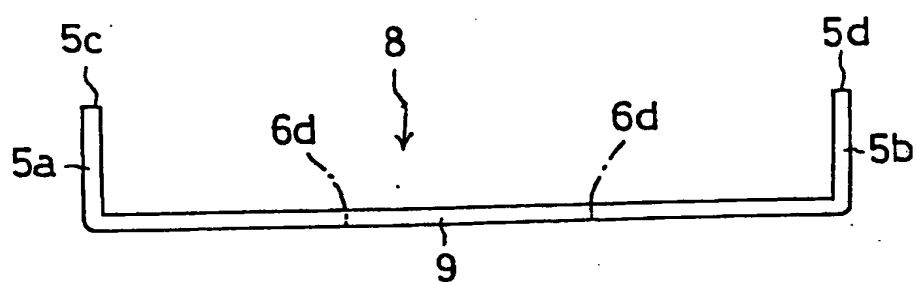


Fig. 5(a)

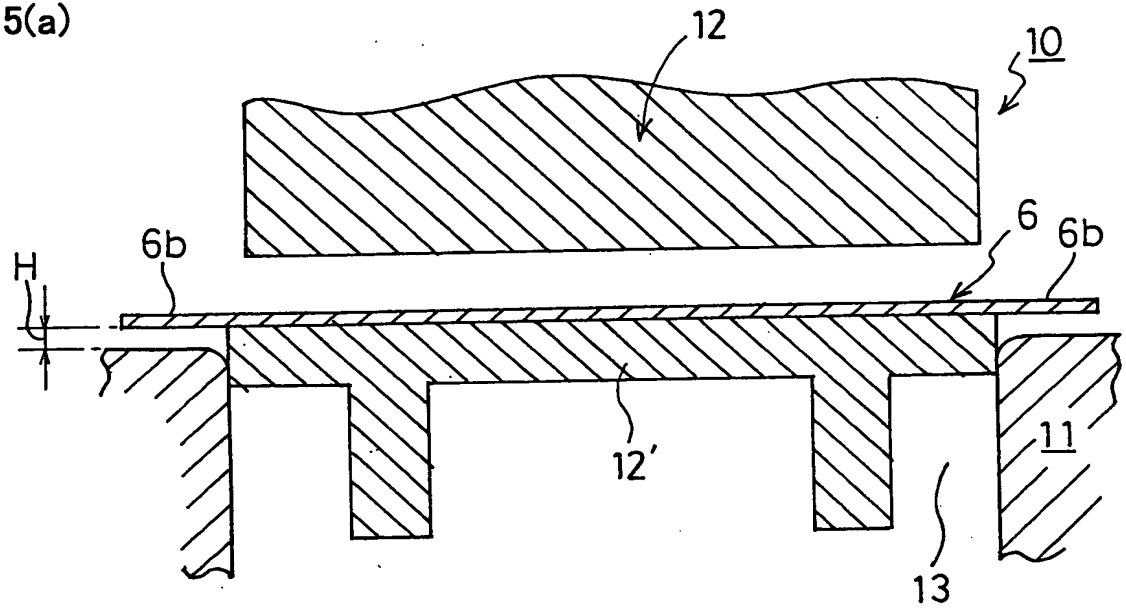


Fig. 5(b)

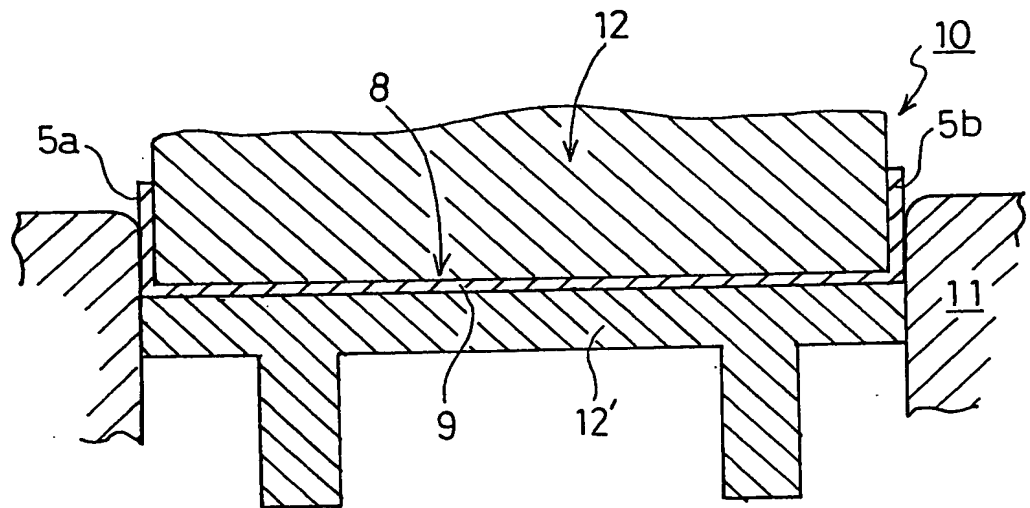


Fig. 6(a)

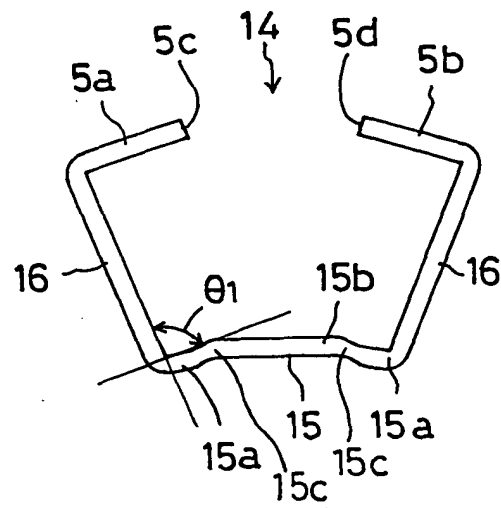


Fig. 6(b)

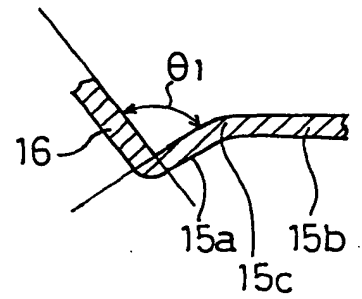


Fig. 7

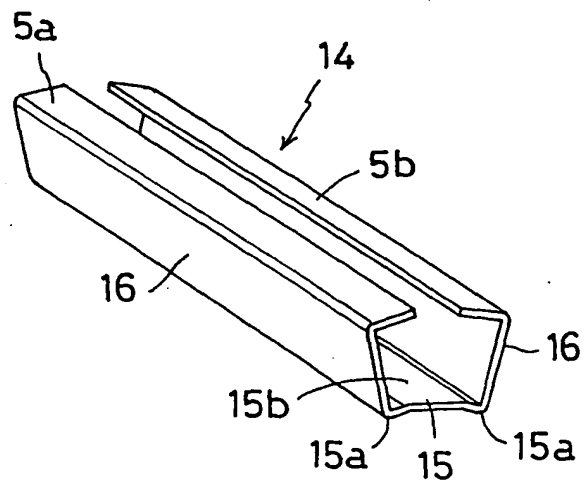


Fig. 8

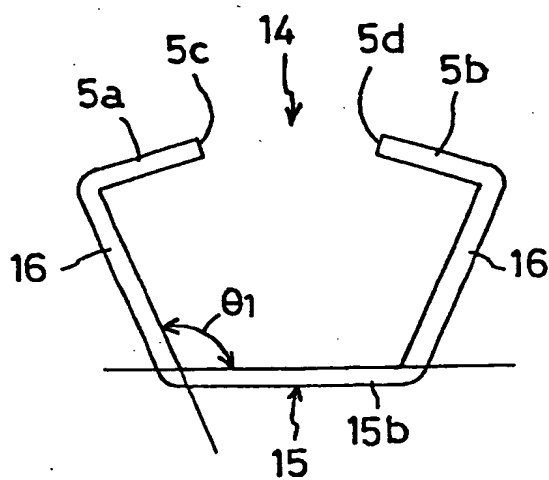


Fig. 9(a)

Fig. 9(a) is a cross-sectional view of a semiconductor device. It shows a substrate 8 with a central layer 9. On the left and right sides of layer 9 are regions 5a and 5d, respectively, with vertical edges 5c and 5d. A central vertical structure 20 is formed on layer 9, with a top surface 20a and a bottom surface 20b. A layer 17 is formed on the top surface 20a. A layer 19 is formed on the bottom surface 20b, with a central region 19a and side regions 19b. A layer 20' is formed on the side regions 19b. A layer 20a' is formed on the bottom surface 20b, with a central region 20a' and side regions 20a'. A dimension  $H'$  is indicated between the bottom surface 20b and the bottom surface 20a'.

**Fig. 10**

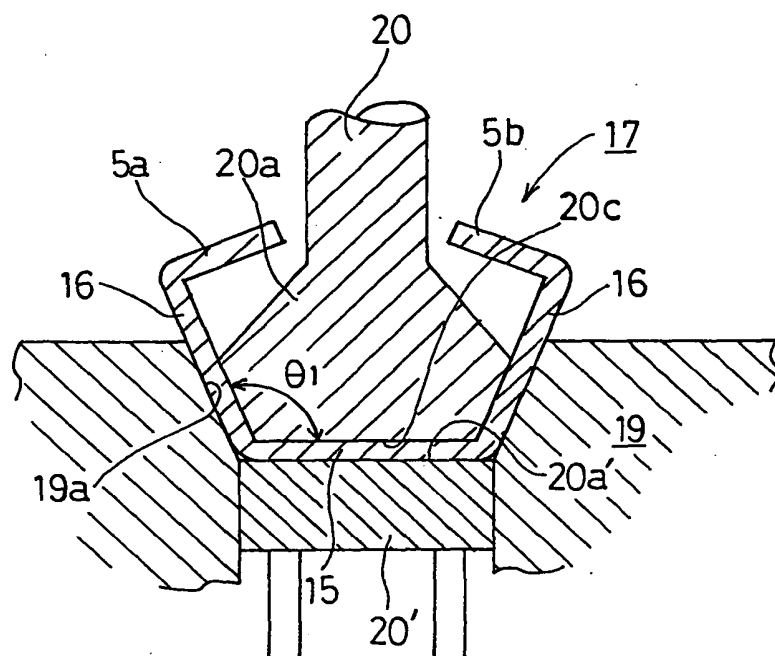




Fig. 11(a)

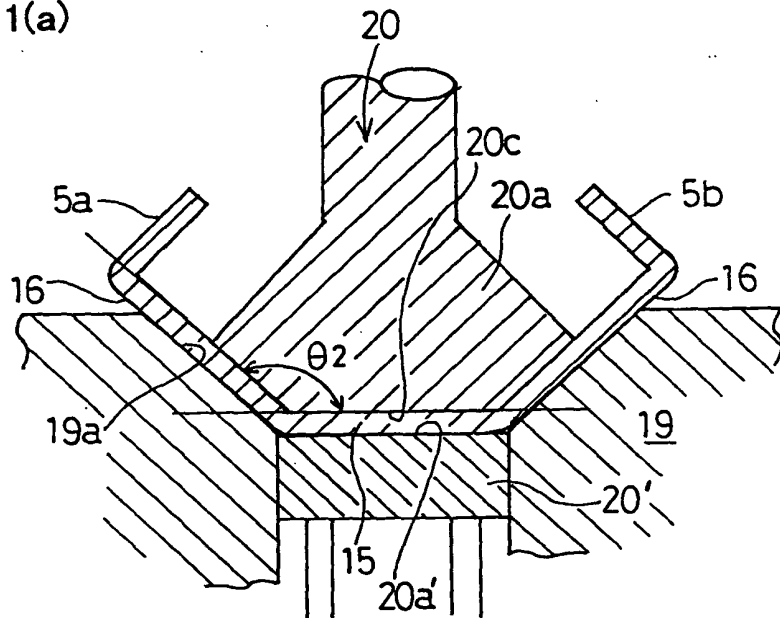
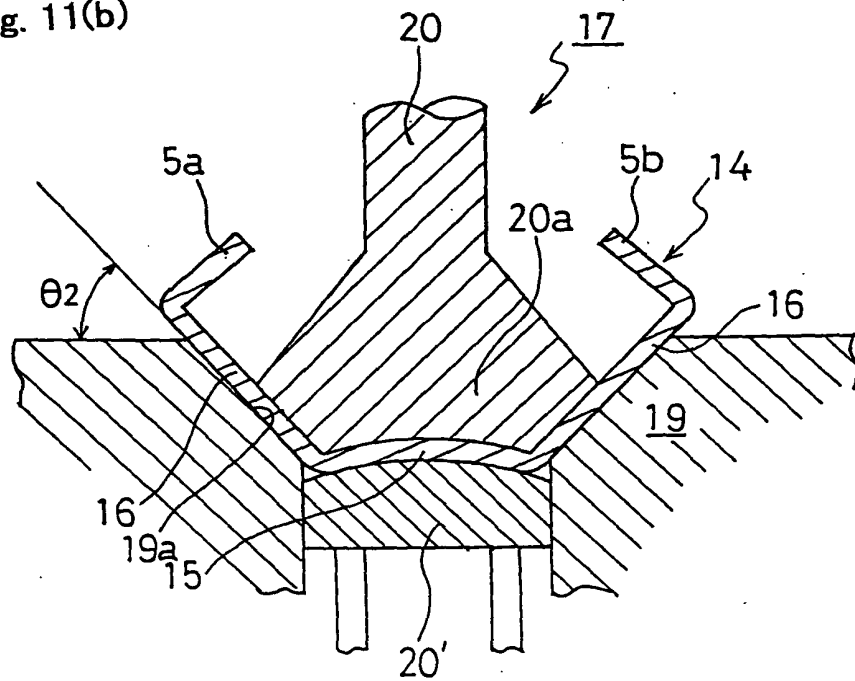
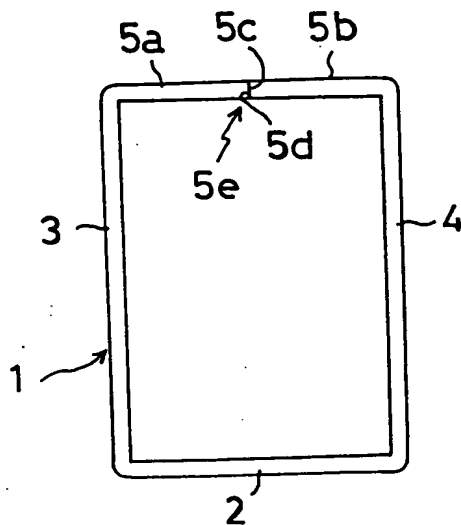


Fig. 11(b)



**Fig. 12**



**Fig. 13**

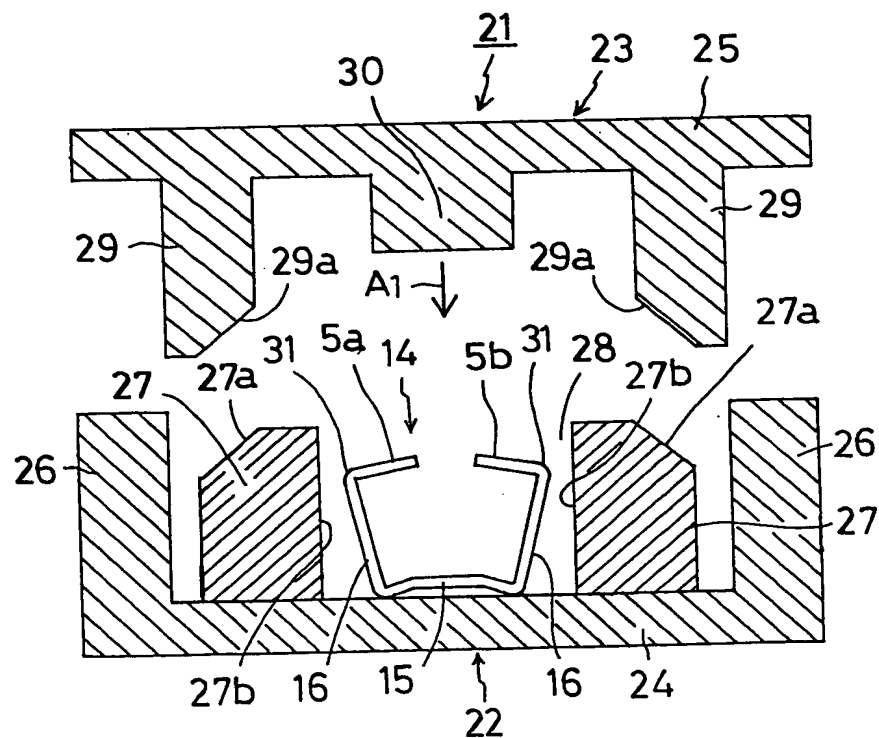


Fig. 14

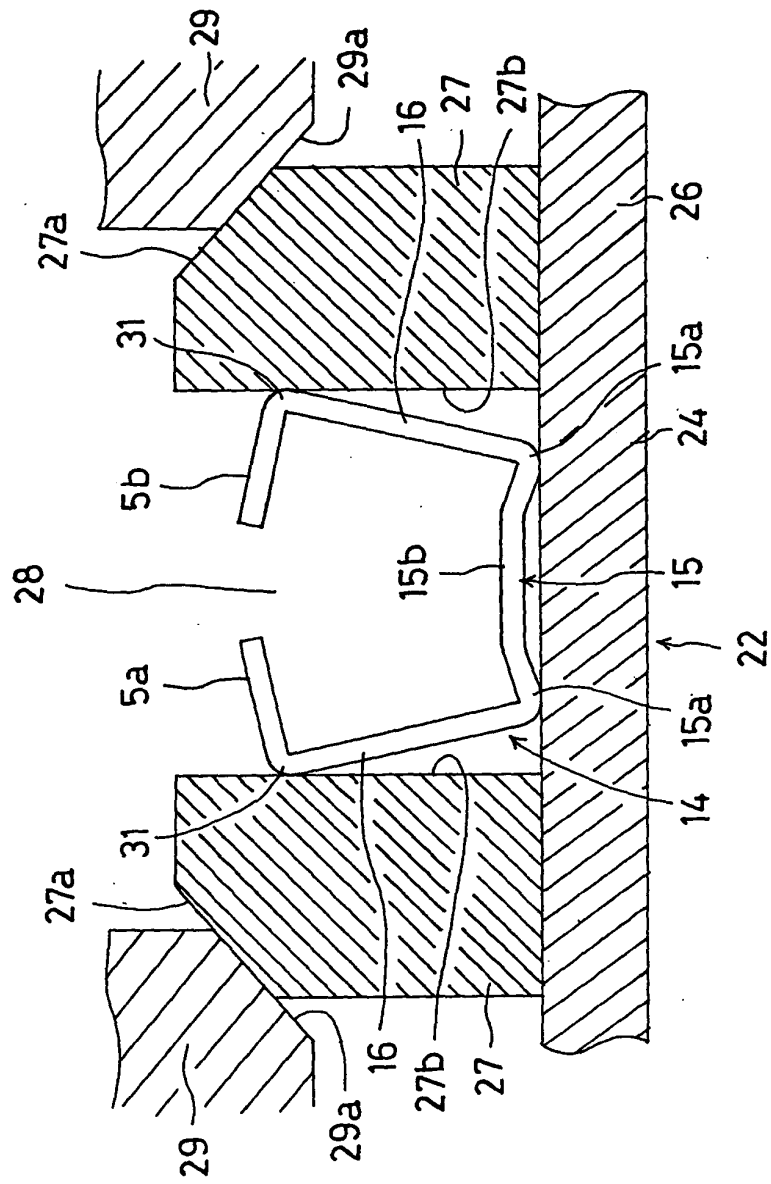
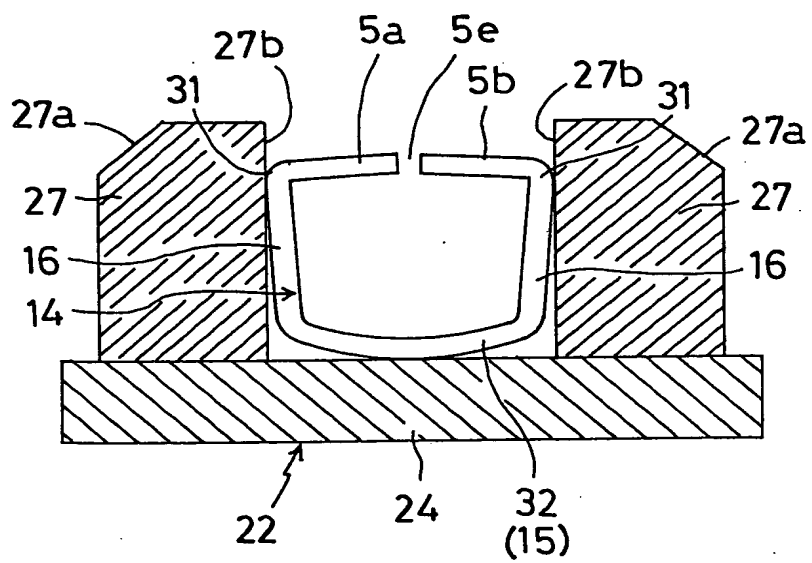


Fig. 15



**Figure 1**

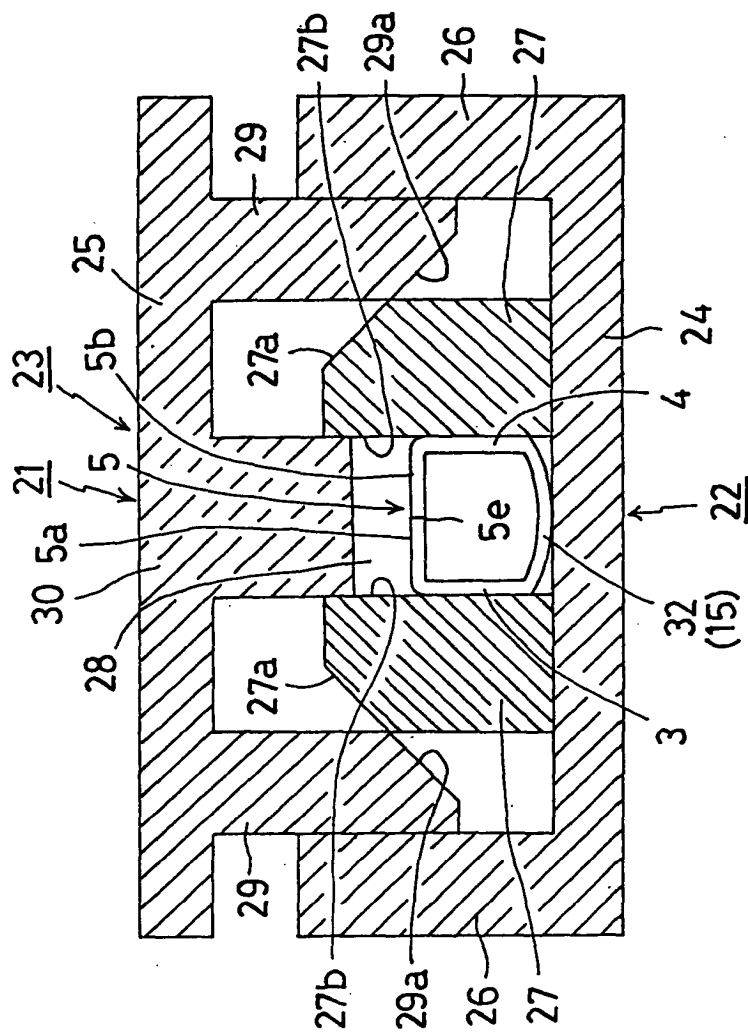


Fig. 17(a)

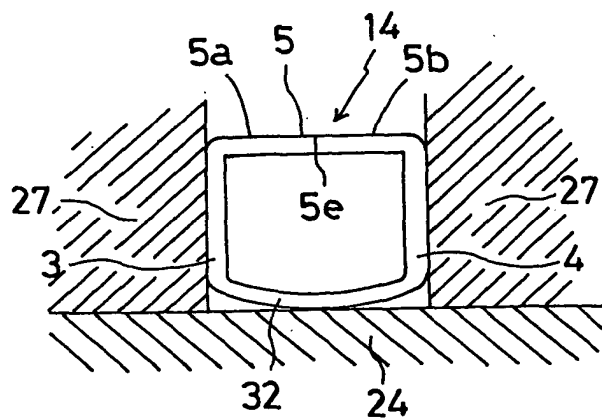


Fig. 17(b)

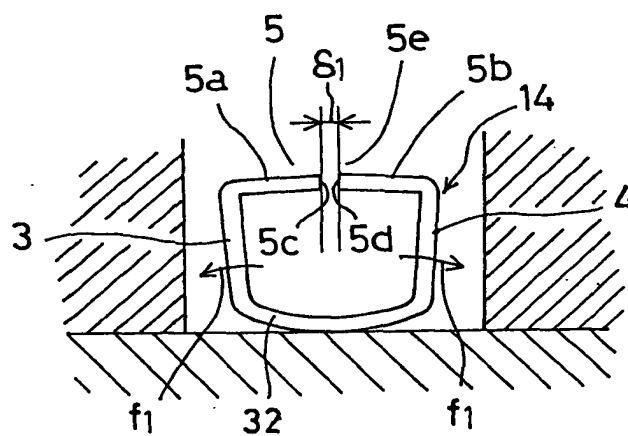


Fig. 18

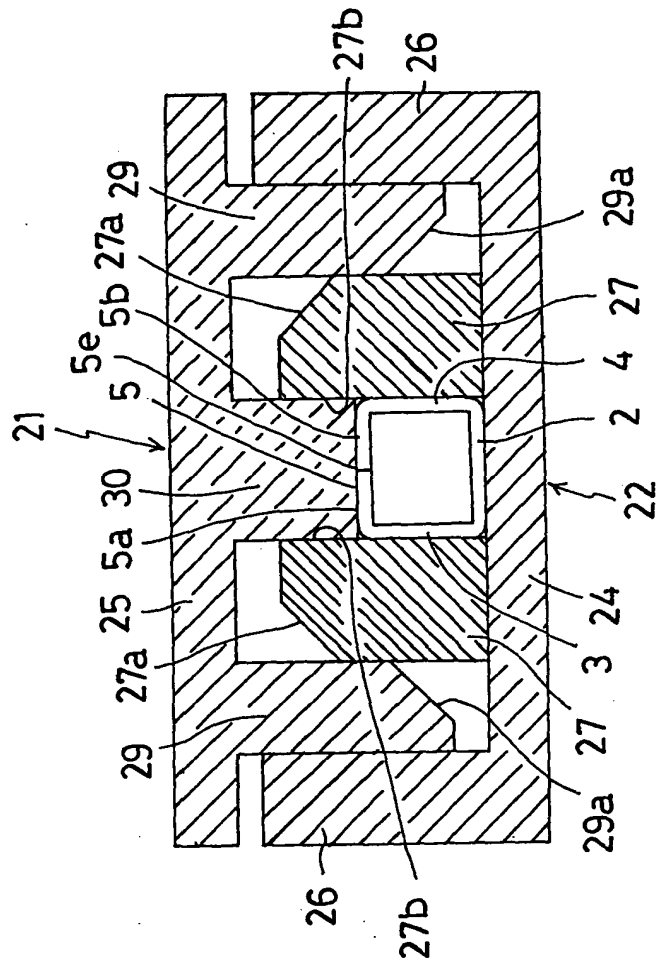


Fig. 19

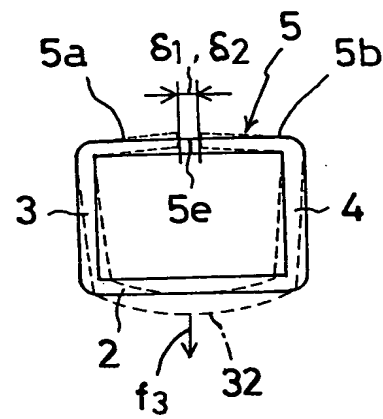
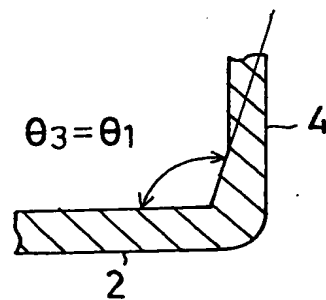


Fig. 20





**Fig. 21**

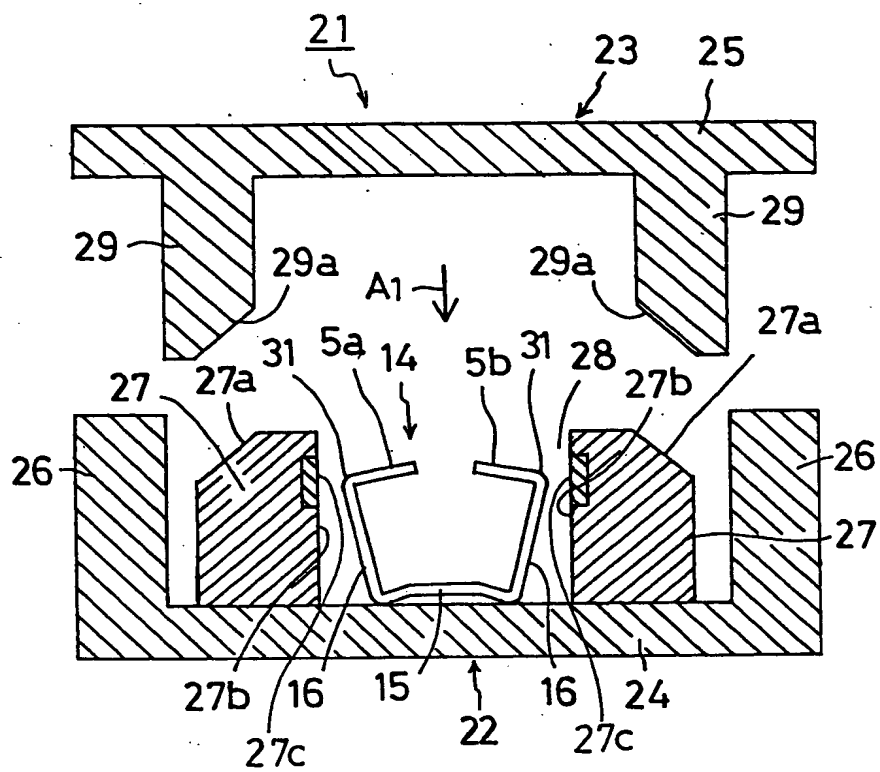


Fig. 22

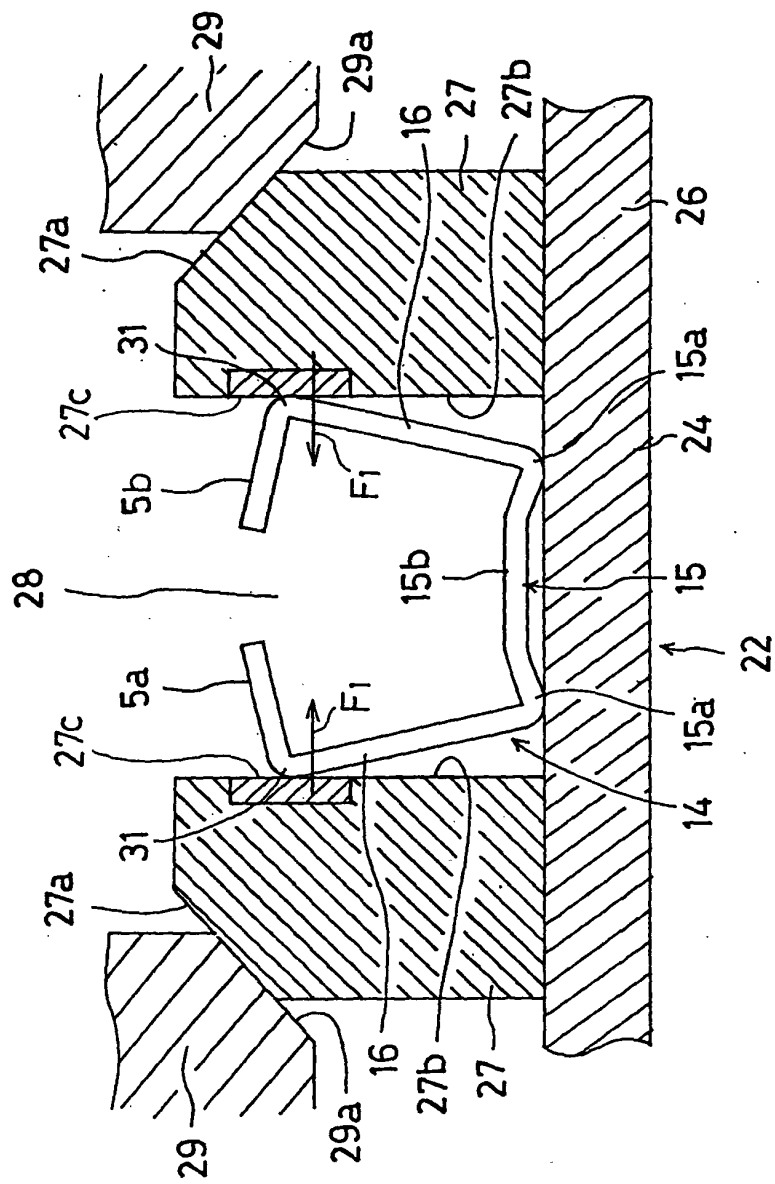
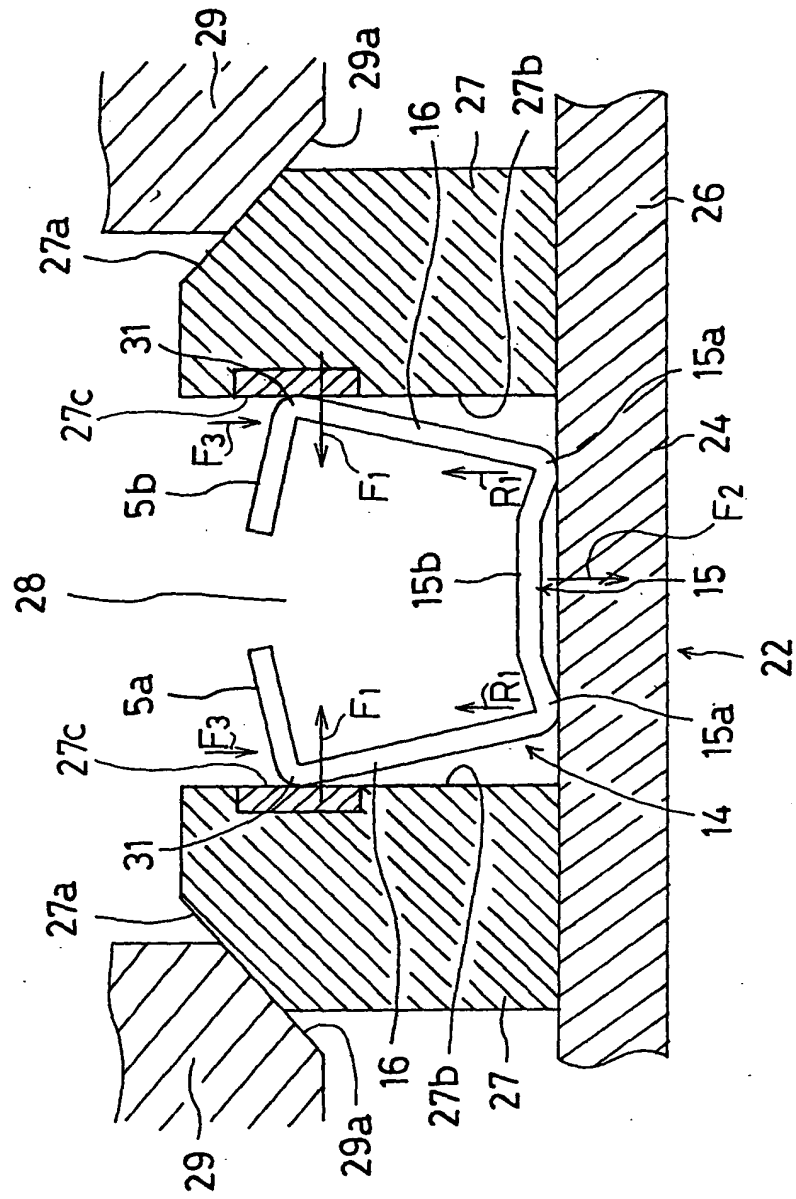


Fig. 23



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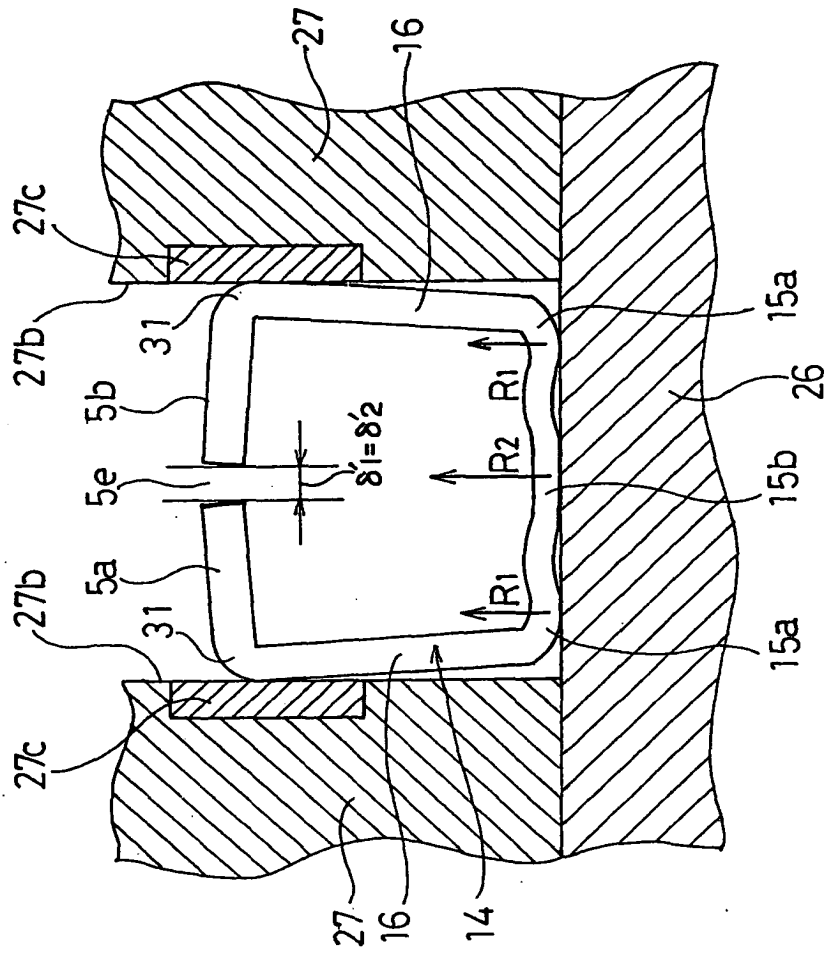


Fig. 25

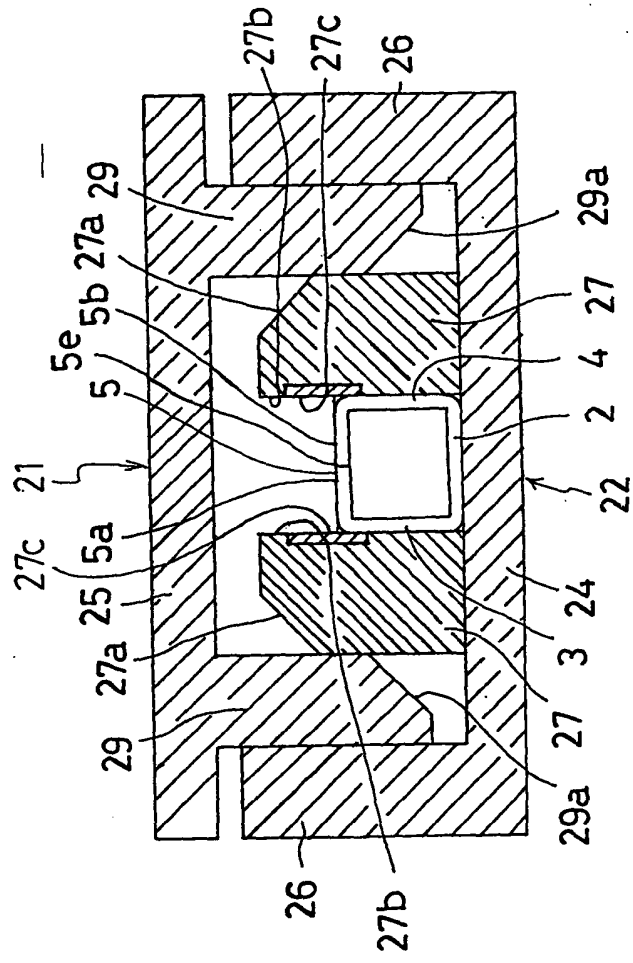


Fig. 26(a)

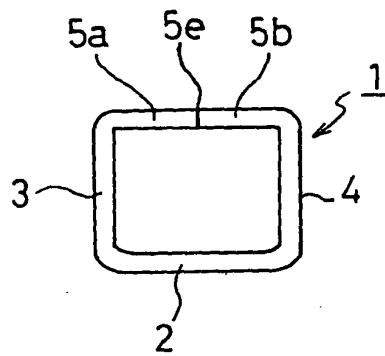


Fig. 26(b)

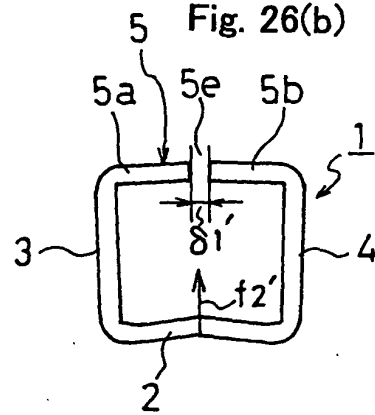
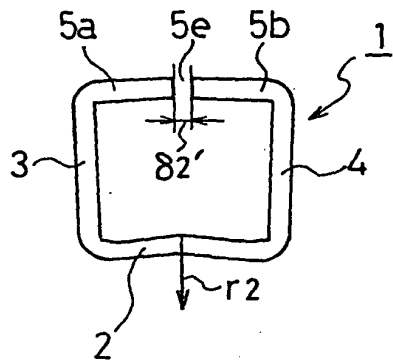
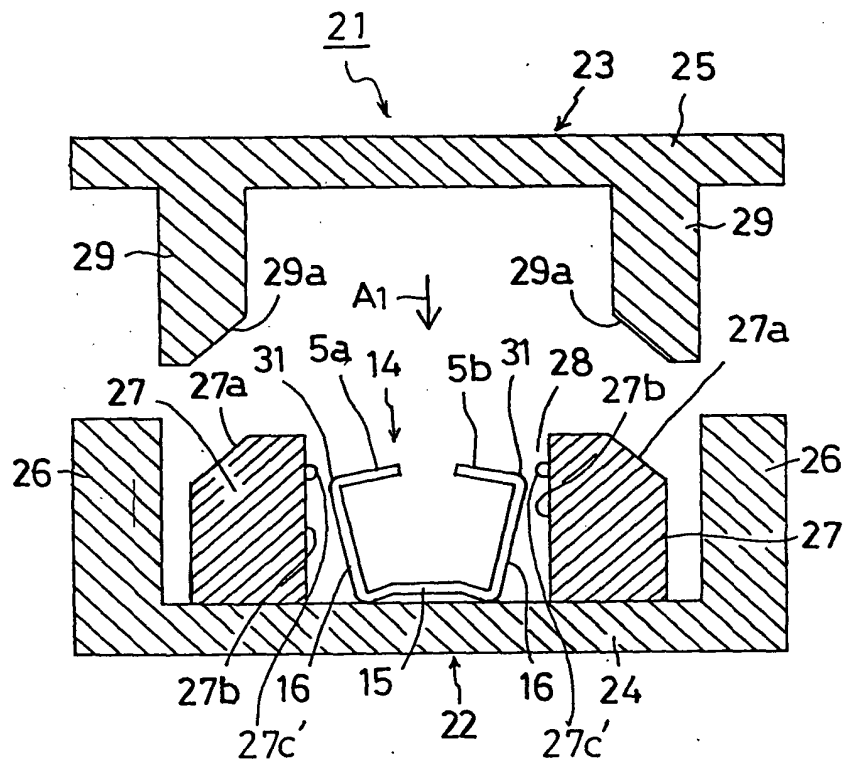


Fig. 26(c)



**Fig. 27**



**Fig. 28**

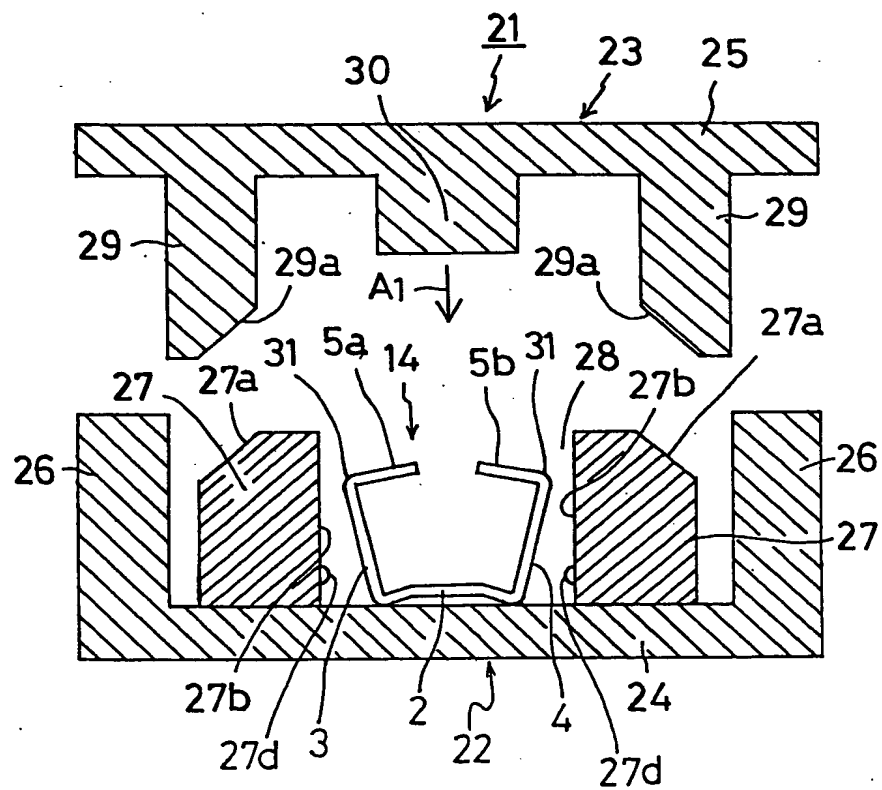




Fig. 29

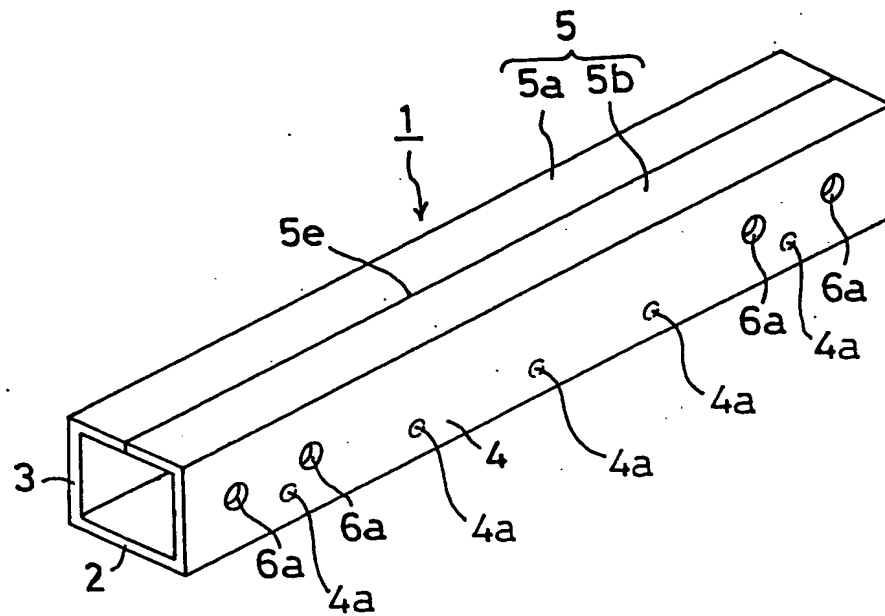


Fig. 30

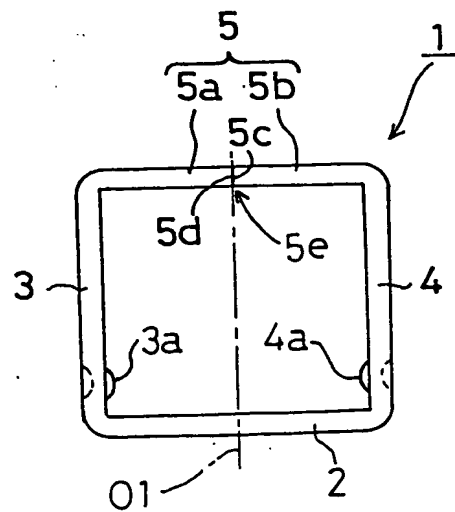


Fig. 31

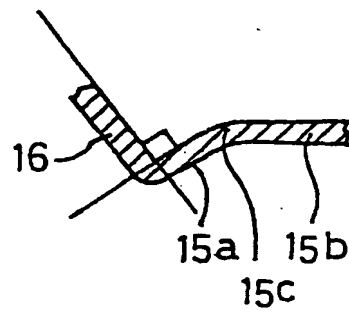


Fig. 32(a)

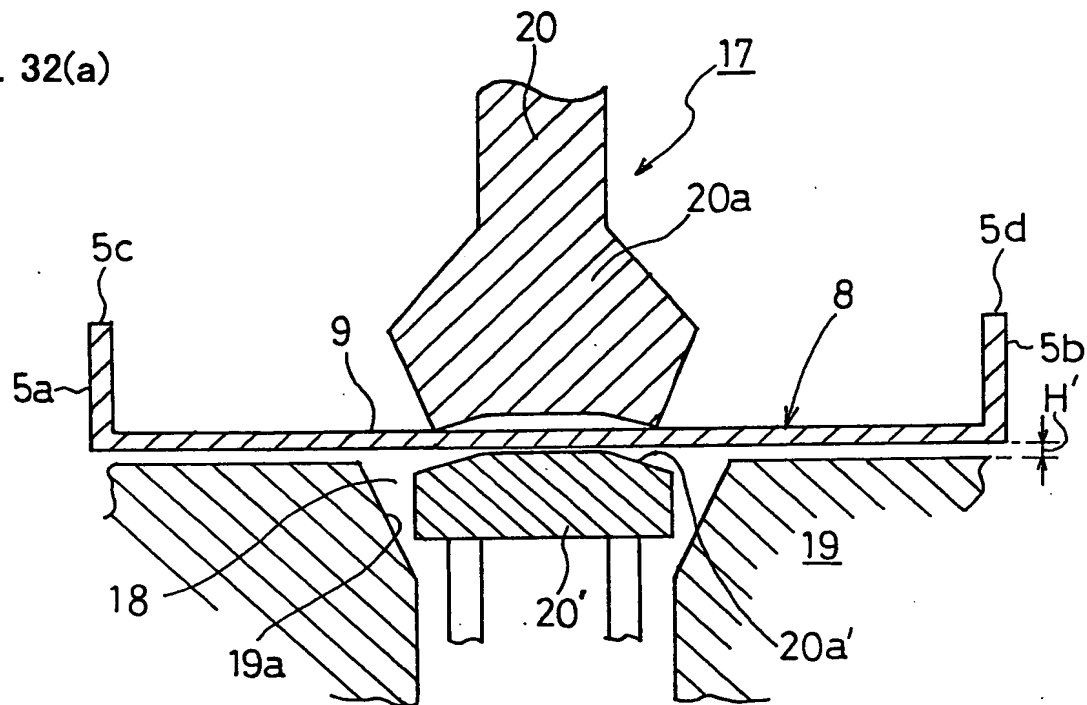
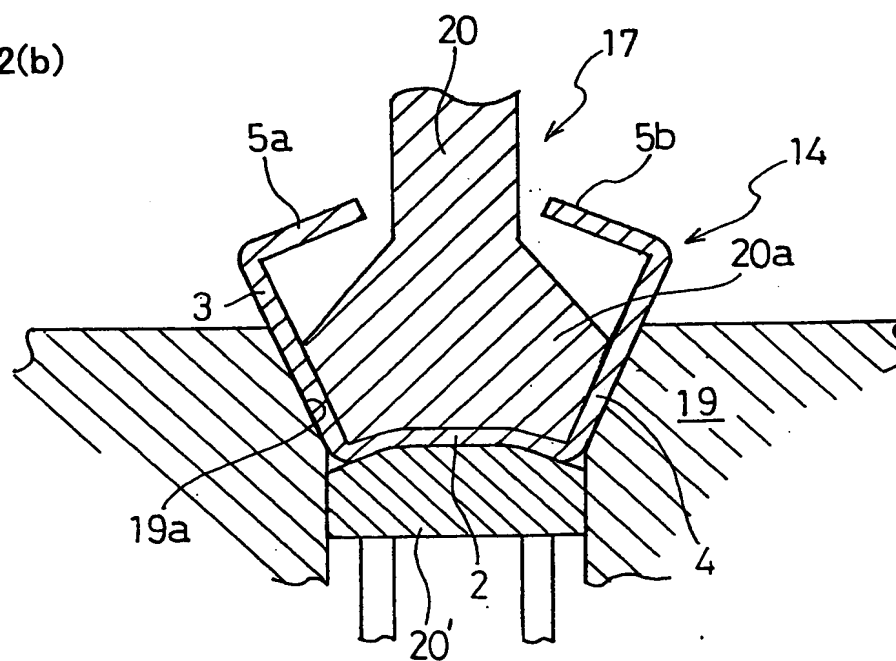


Fig. 32(b)



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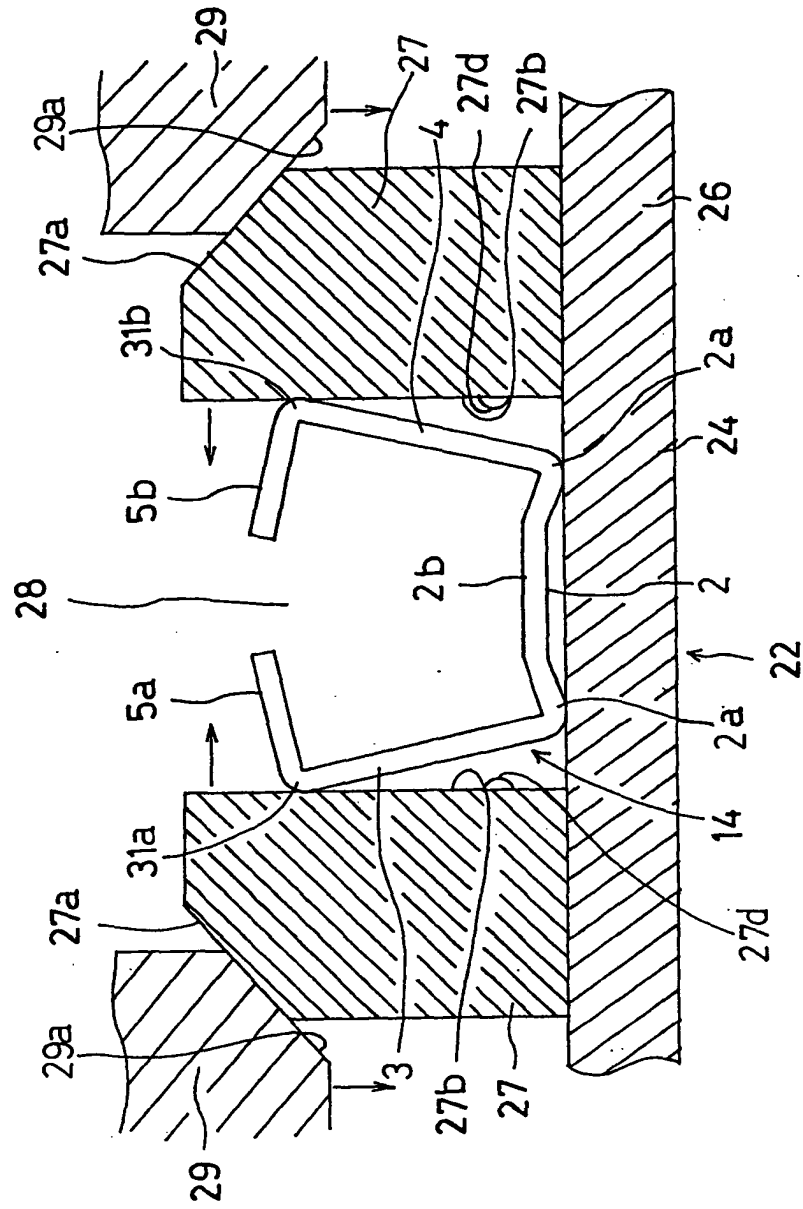


Fig. 34

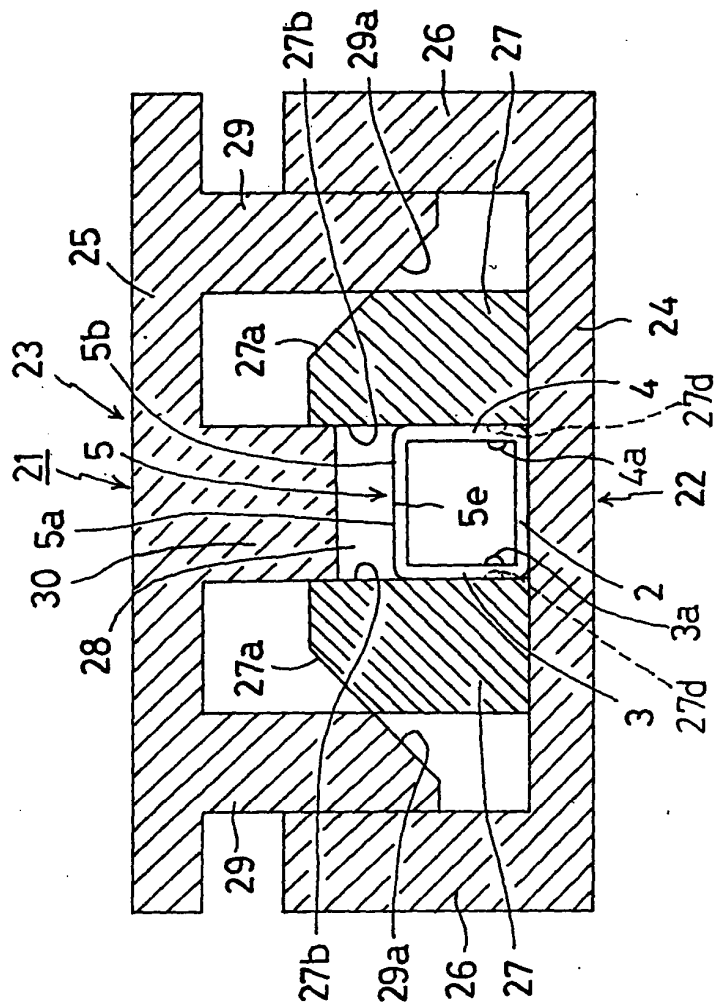


Fig. 35

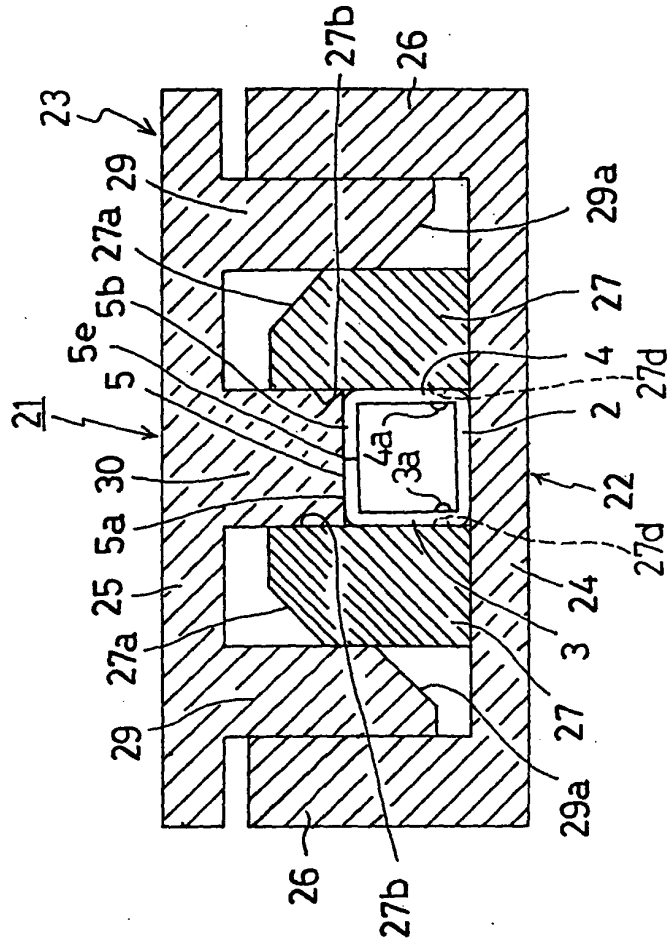


Fig. 36

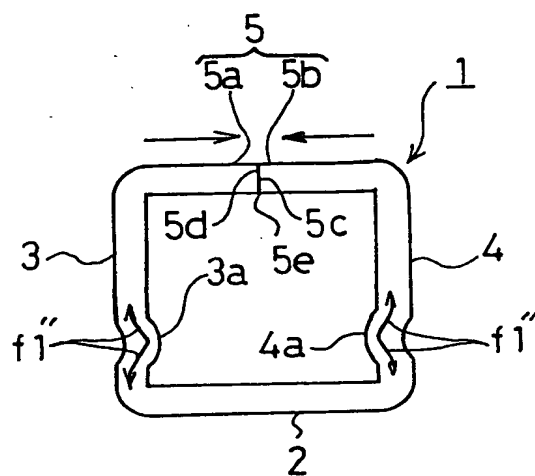


Fig. 37

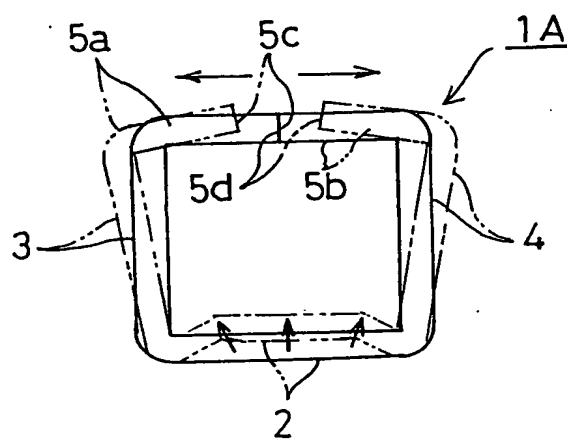


Fig. 38(a)

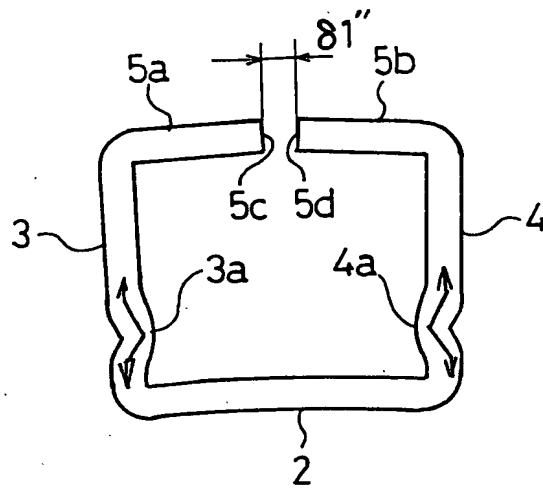


Fig. 38(b)

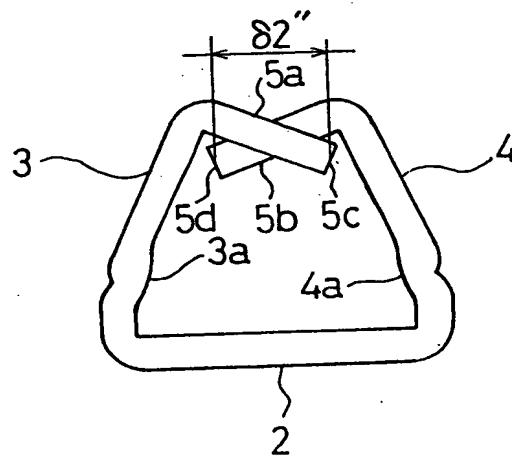




Fig. 39

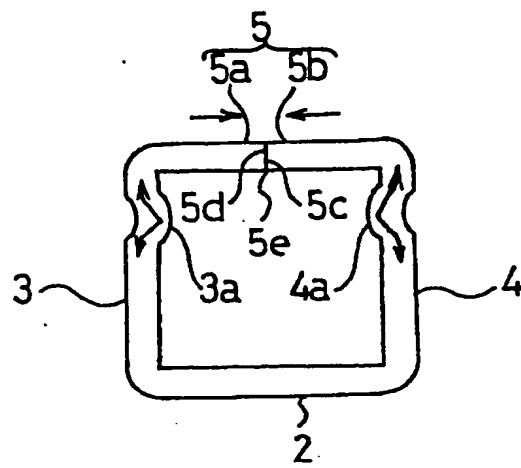


Fig. 40

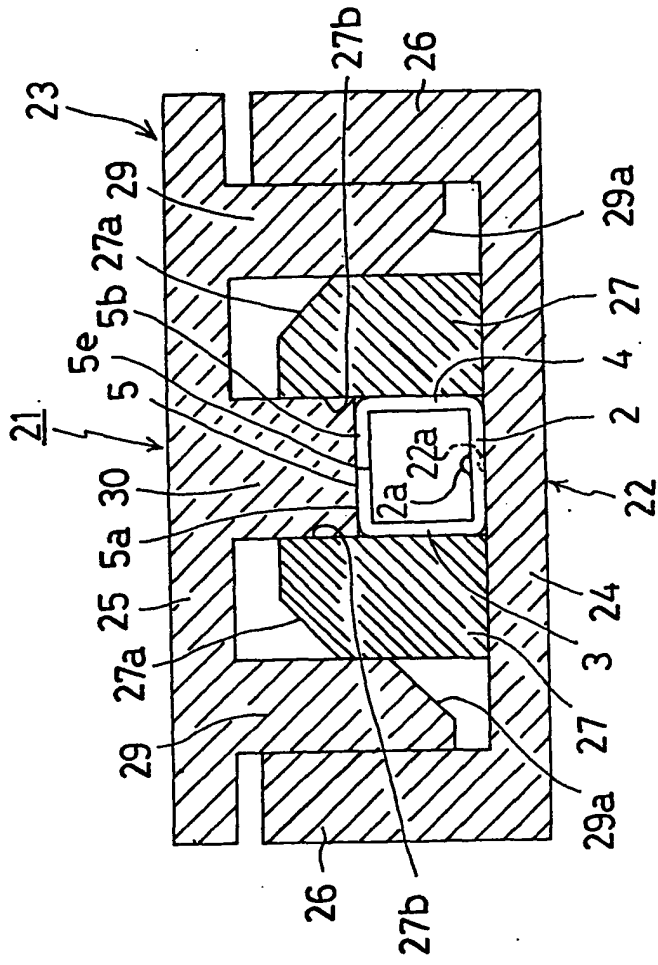


Fig. 41(a)

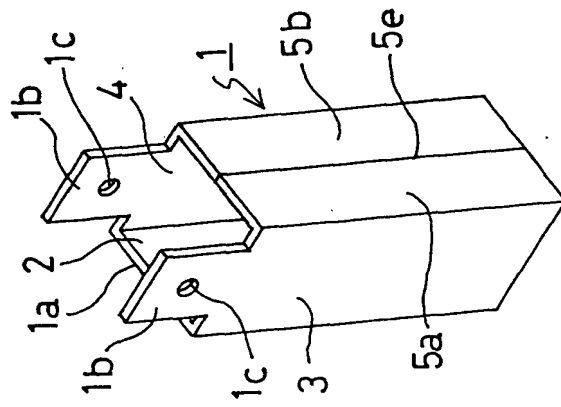


Fig. 41(b)

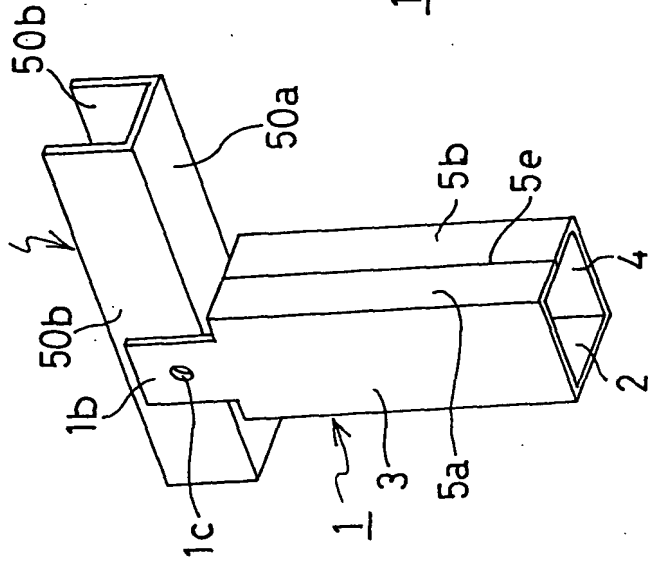


Fig. 41(c)

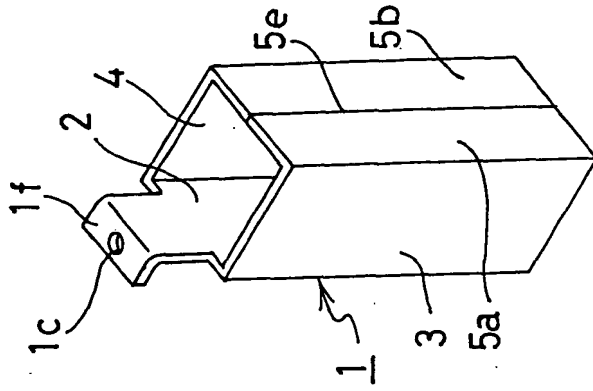


Fig. 42(a)

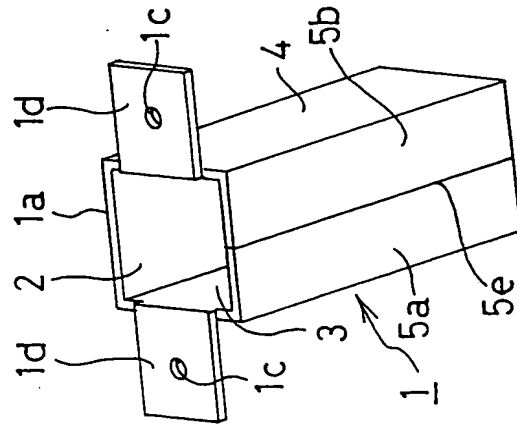


Fig. 42(b)

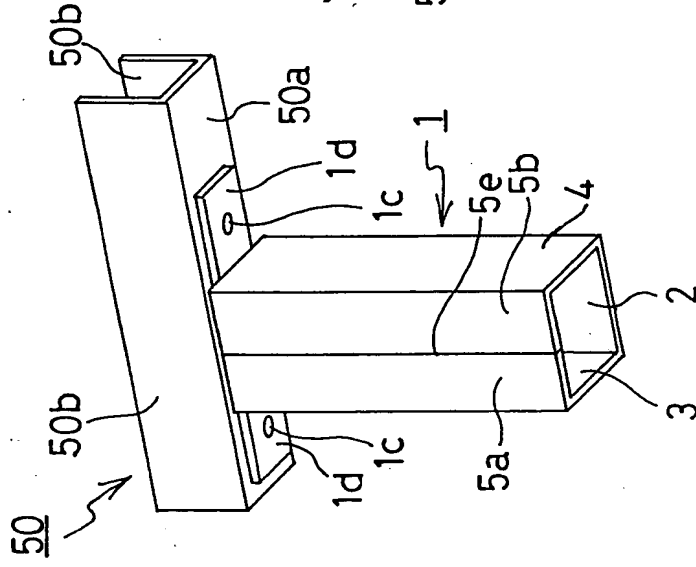


Fig. 42(c)

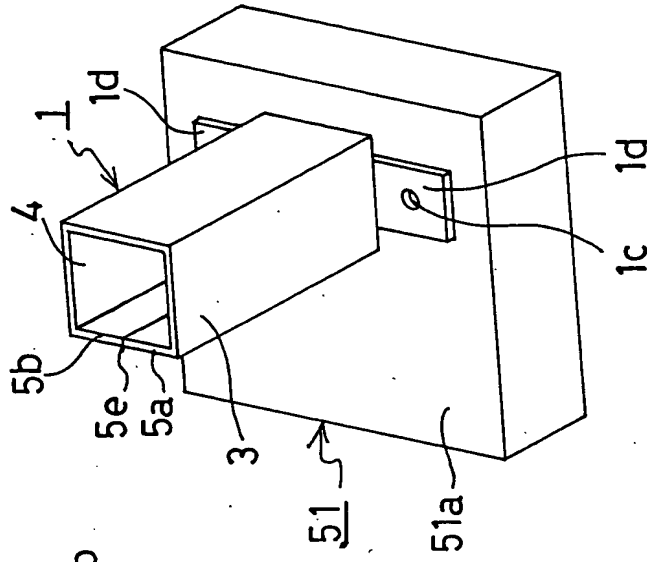


Fig. 43(a)

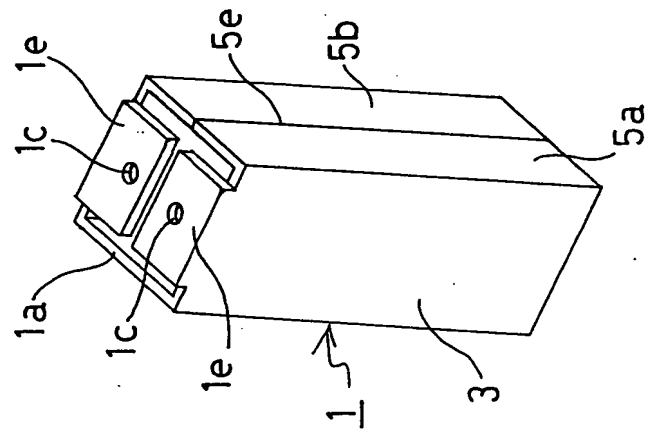


Fig. 43(b)

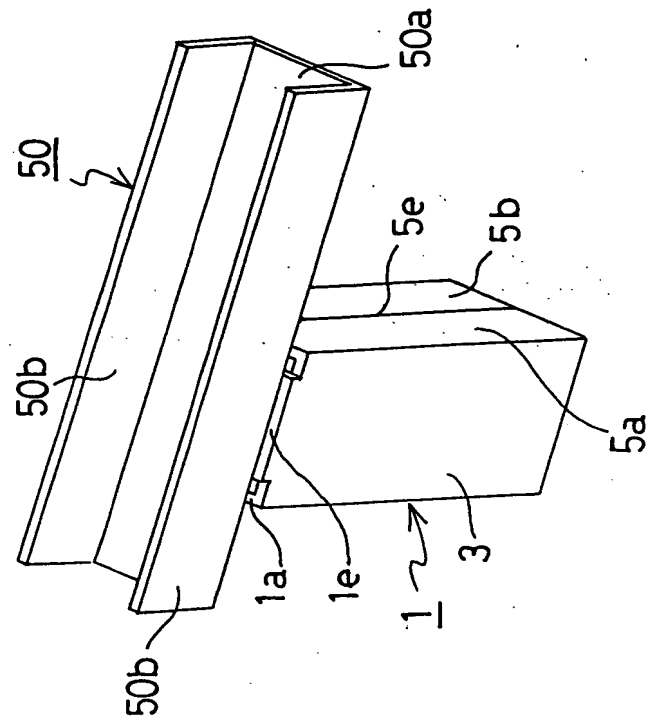


Fig. 44(a)

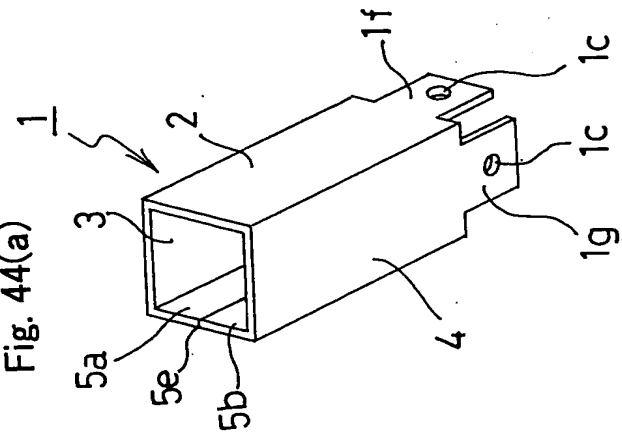


Fig. 44(b)

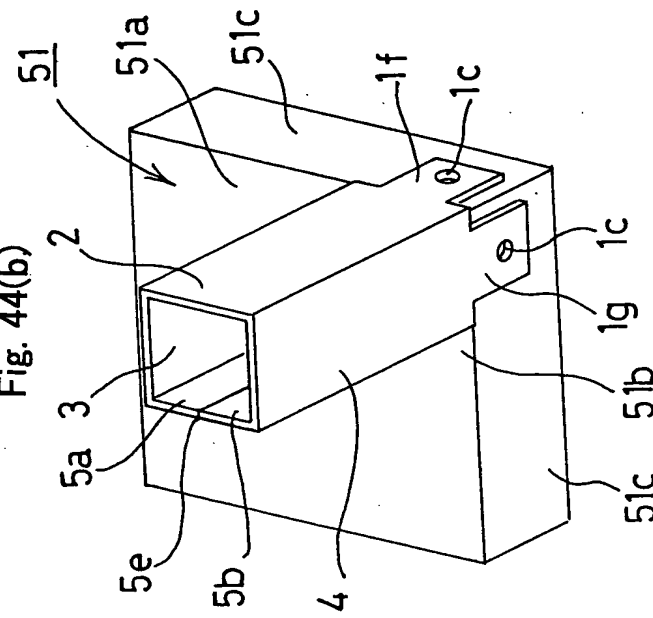


Fig. 45(a)

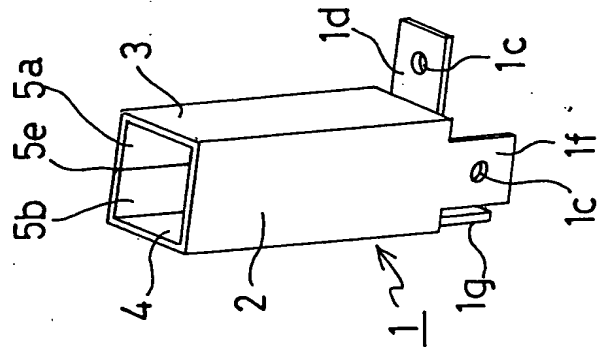


Fig. 45(b)

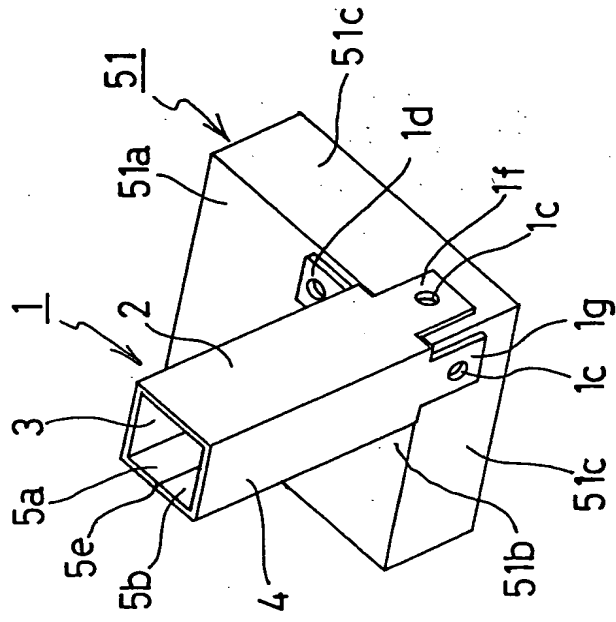


Fig. 46(a)

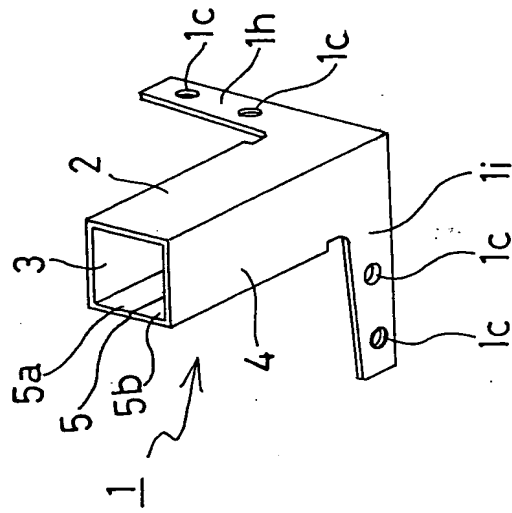


Fig. 46(b)

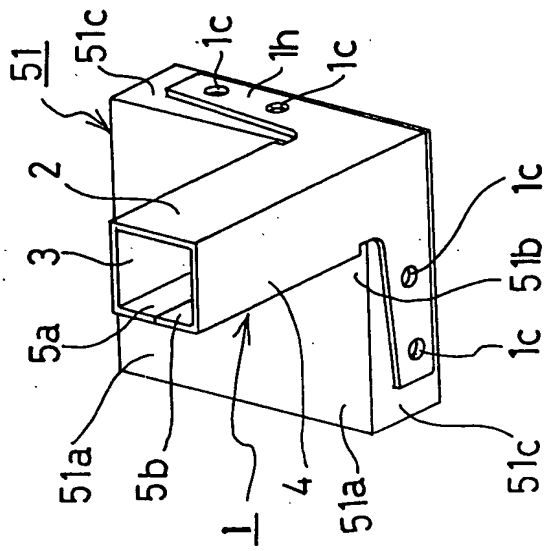




Fig. 47(a)

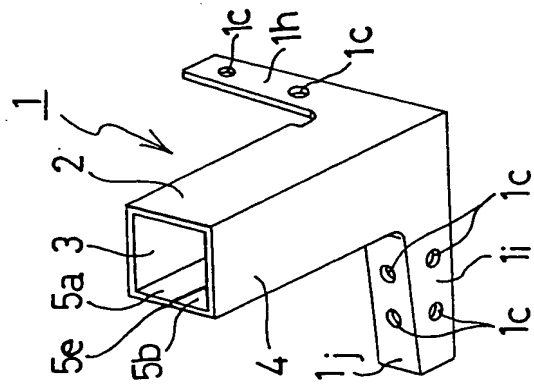


Fig. 47(b)

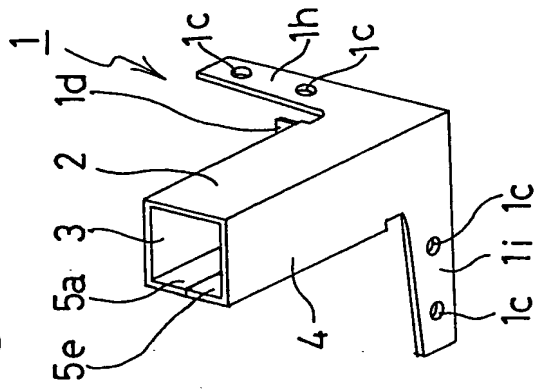


Fig. 47(c)

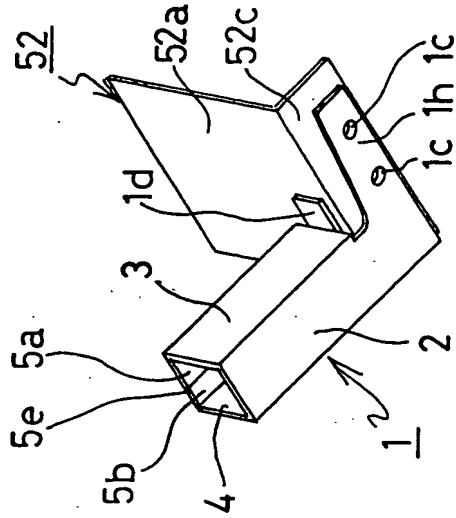


Fig. 48

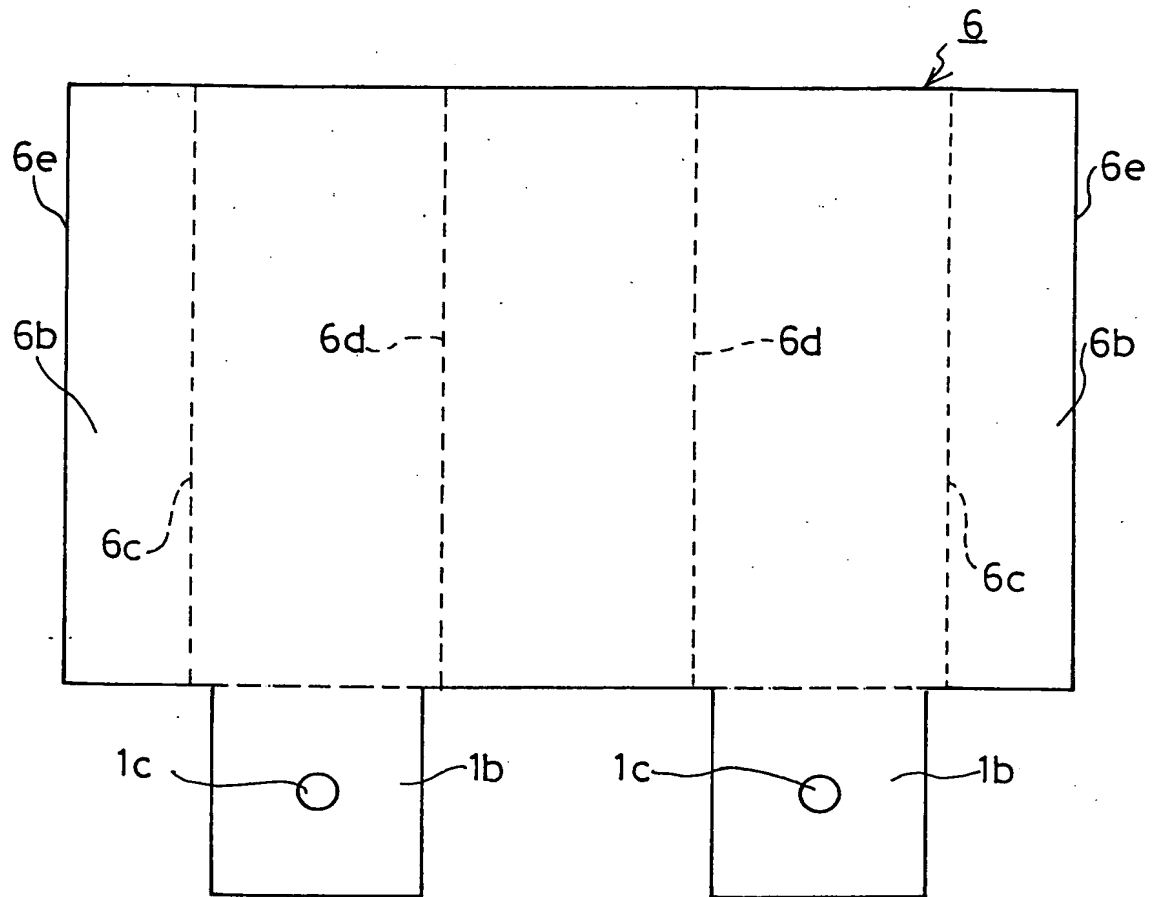


Fig. 49

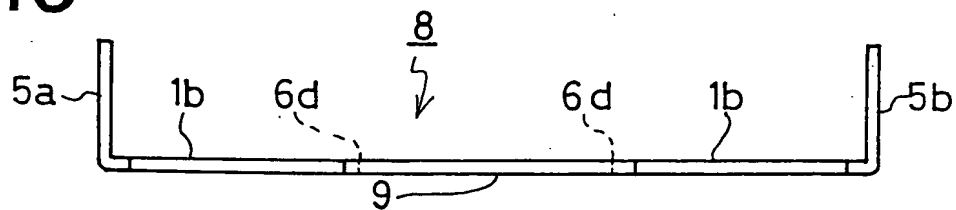


Fig. 50

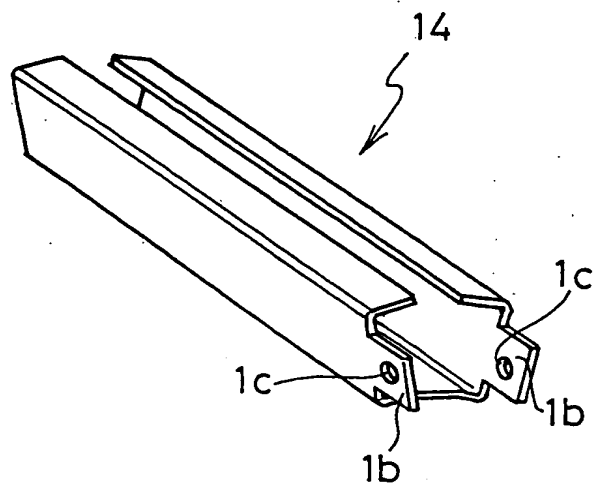


Fig. 51

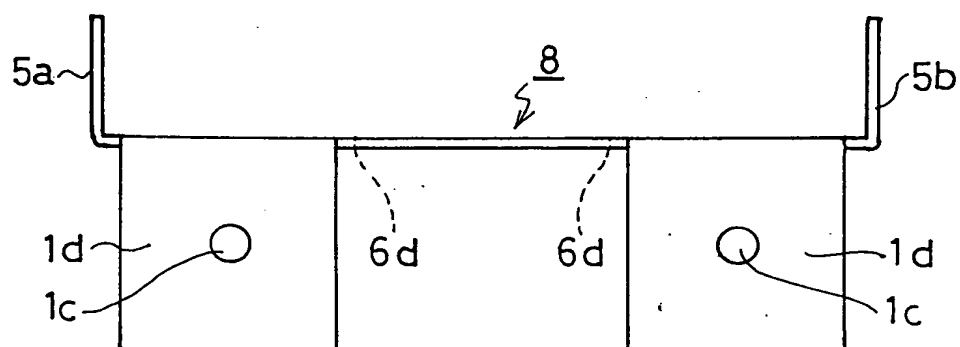


Fig. 52

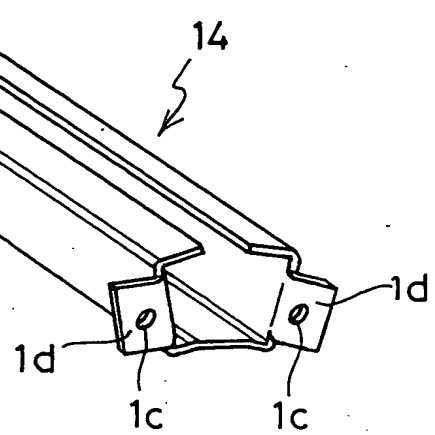


Fig. 53

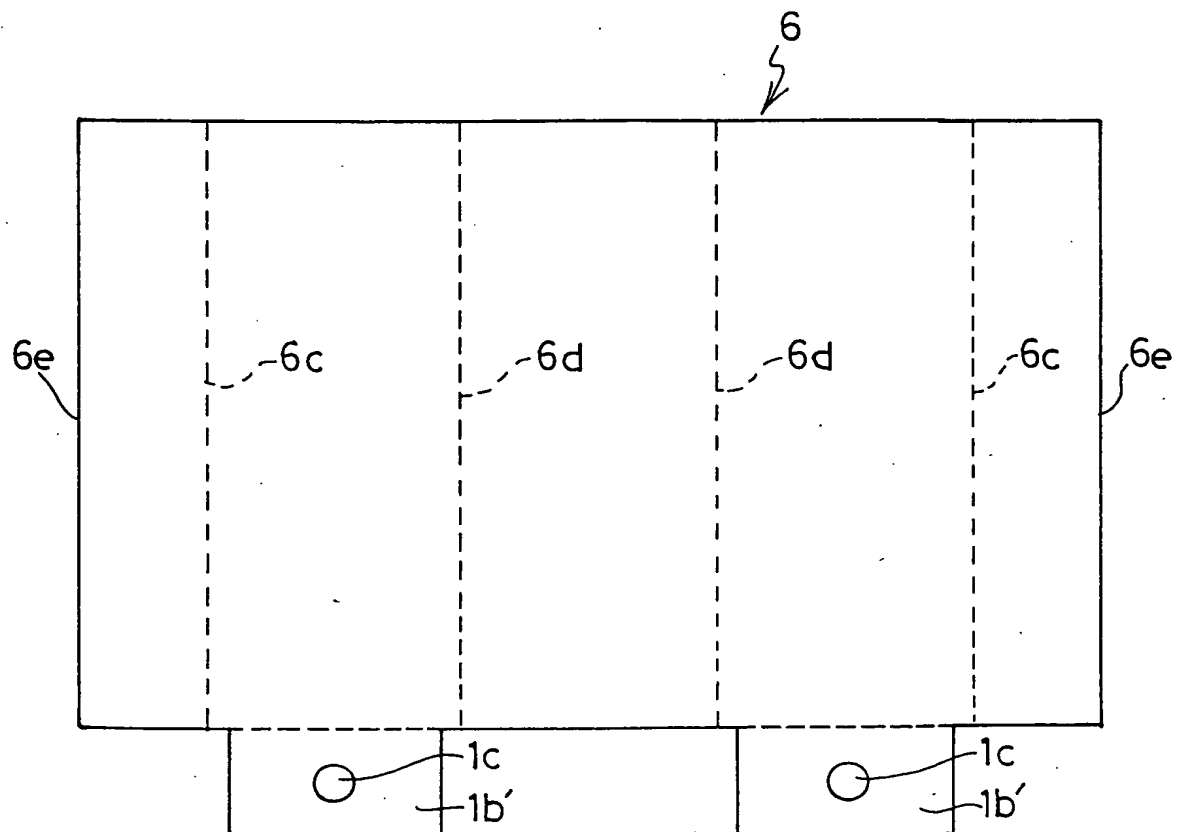


Fig. 54

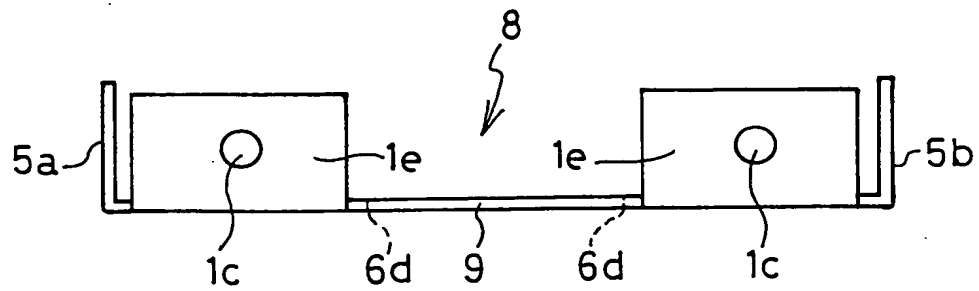


Fig. 55

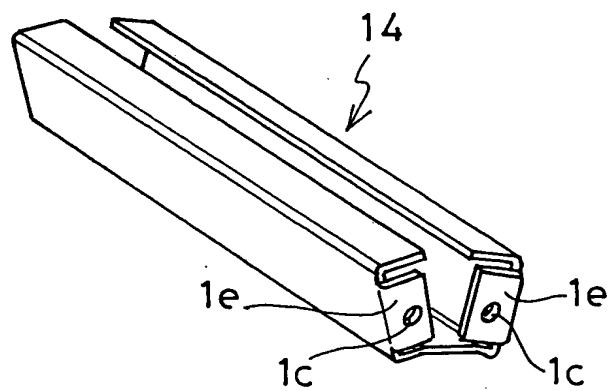


Fig. 56

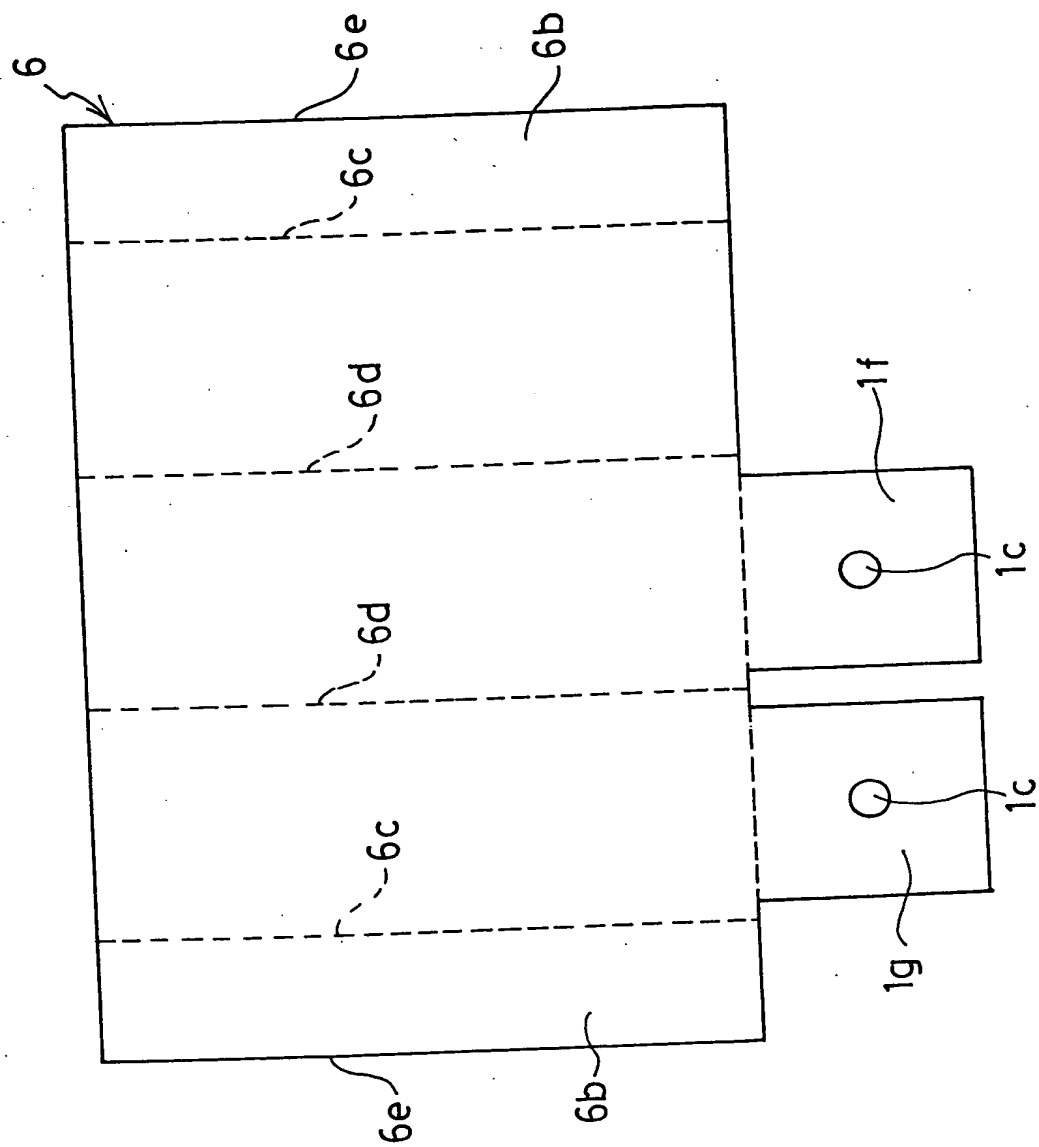


Fig. 57

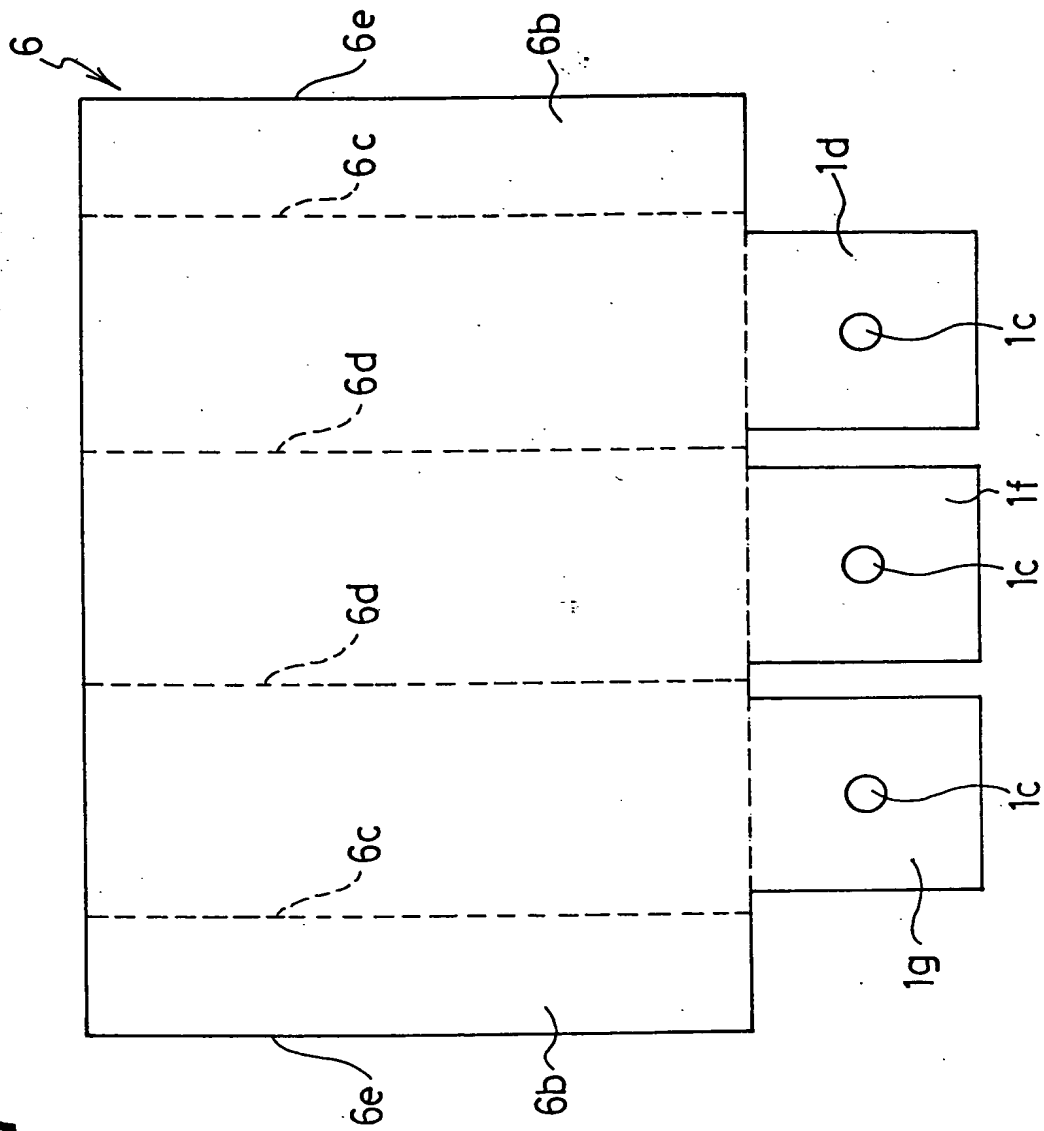


Fig. 58

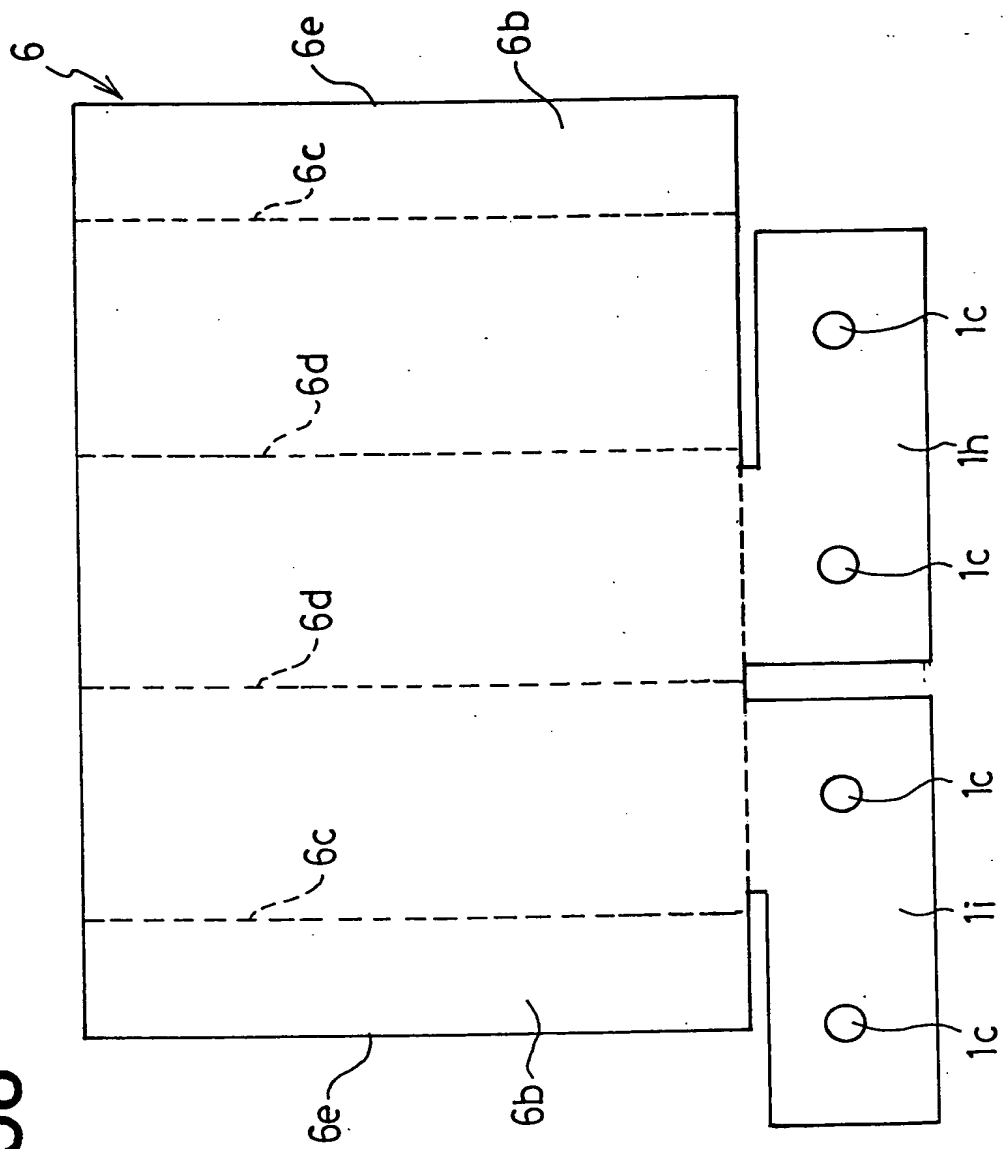
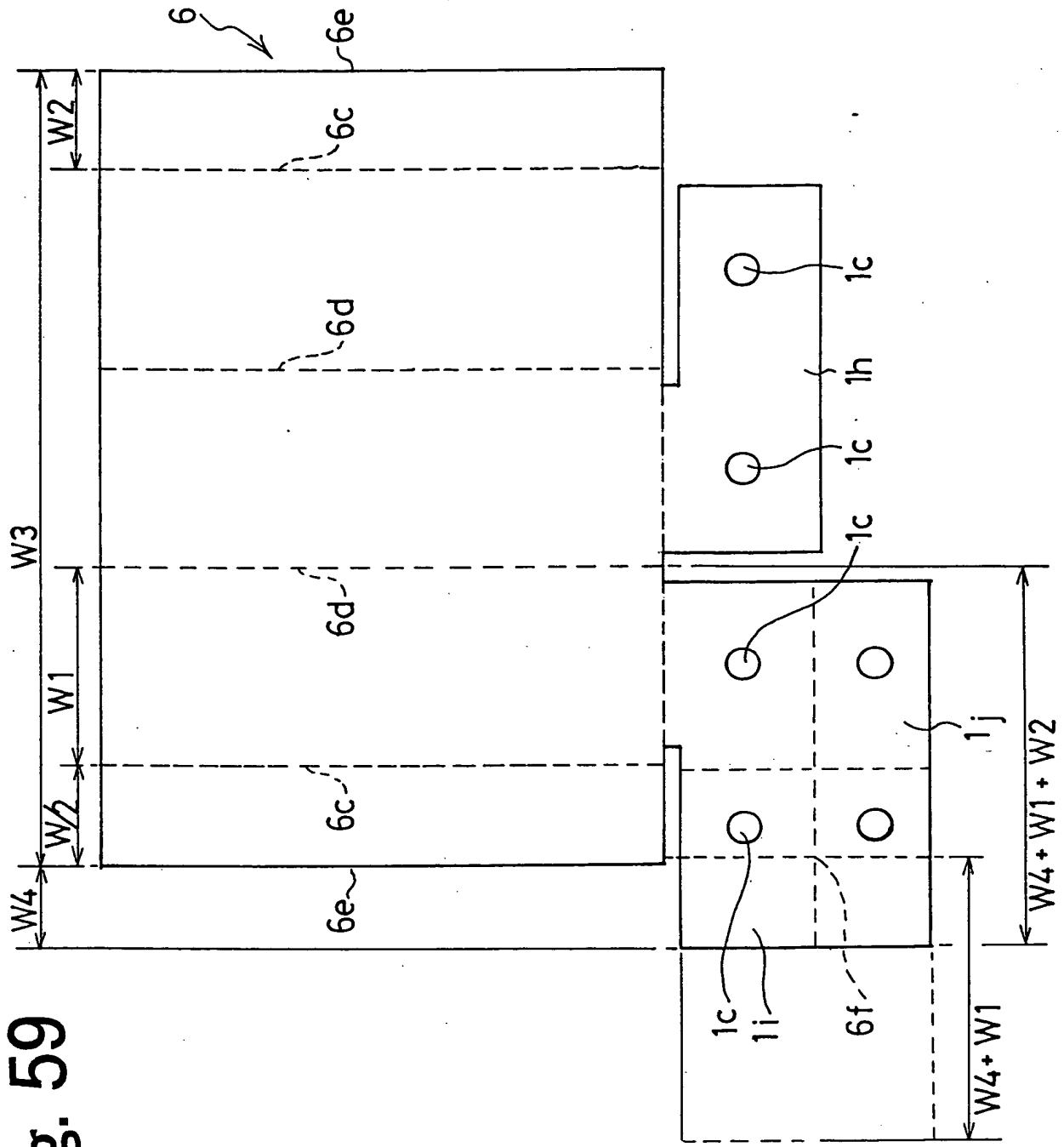
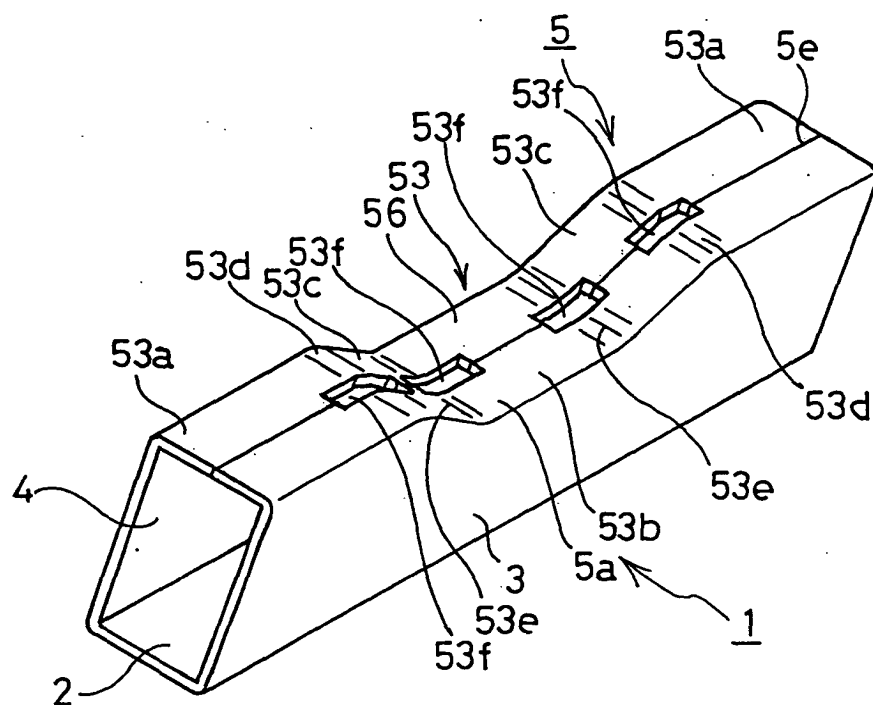




Fig. 59



# Fig. 60



# Fig. 61

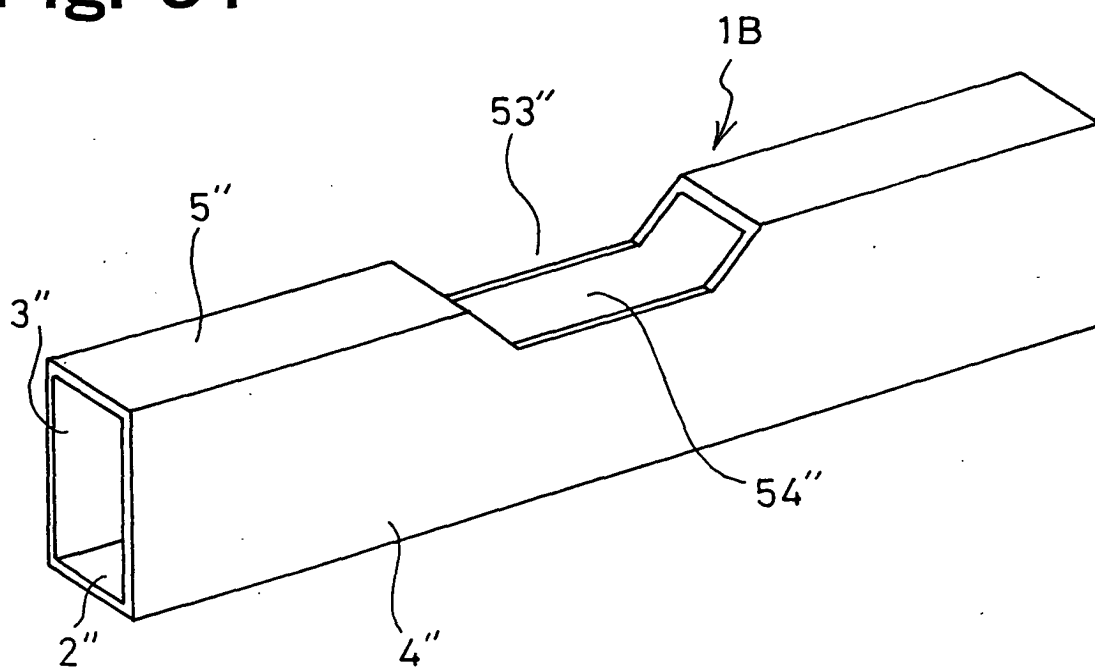


Fig. 62

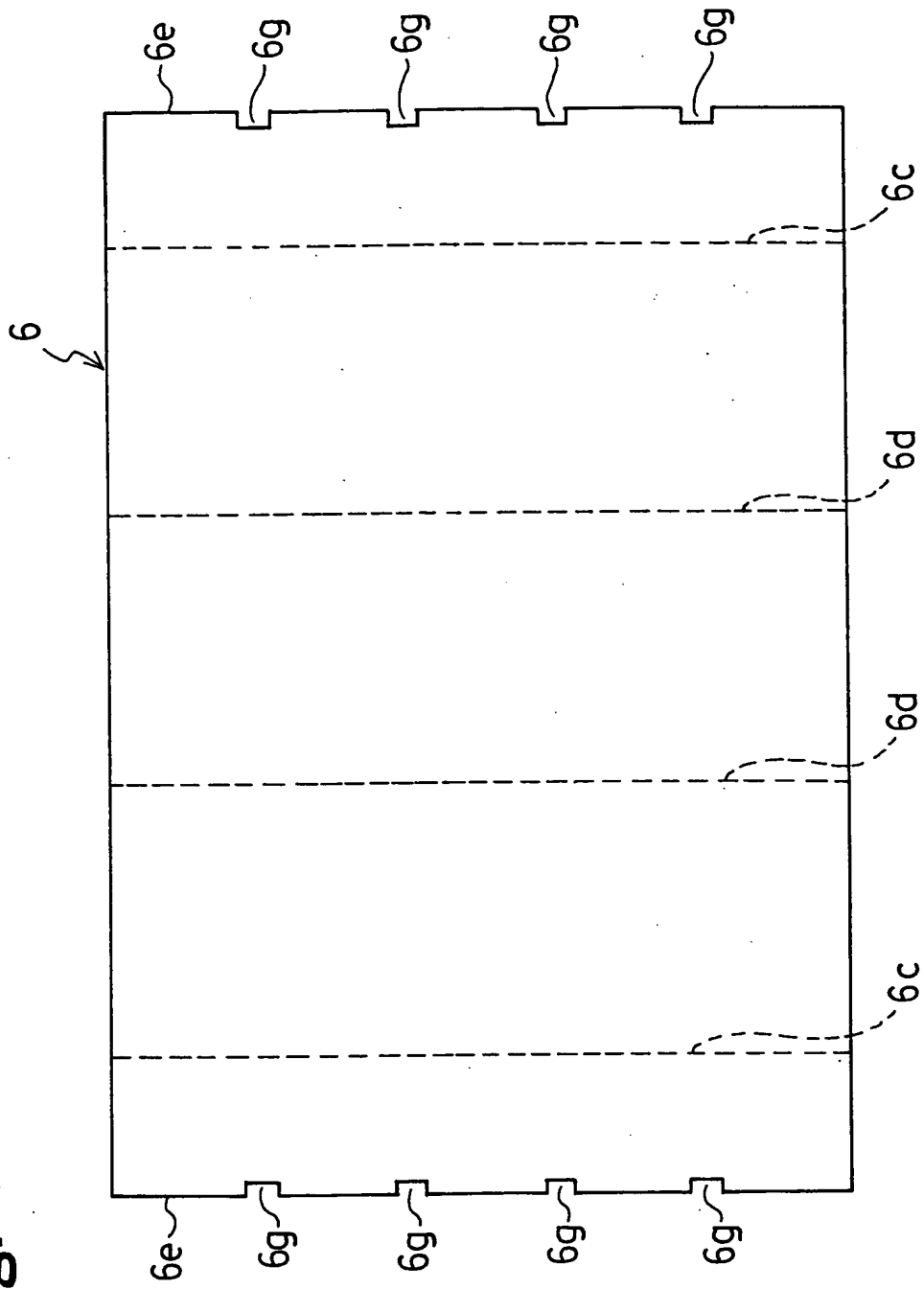
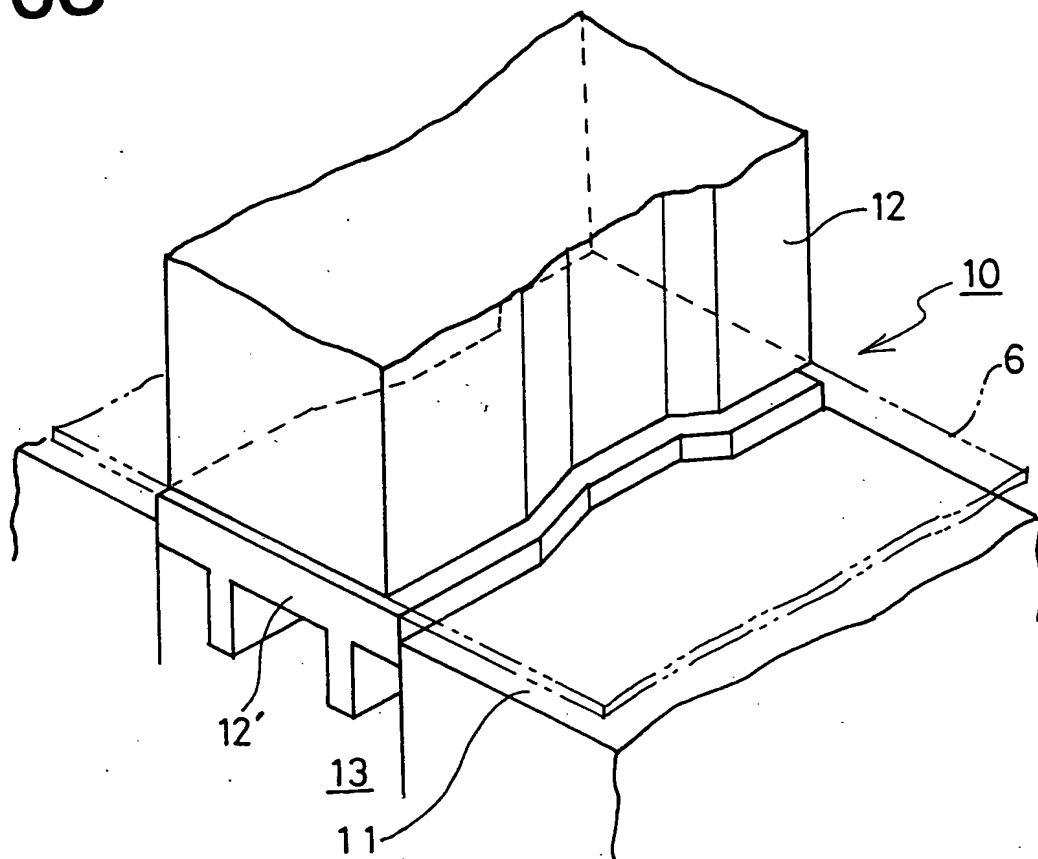
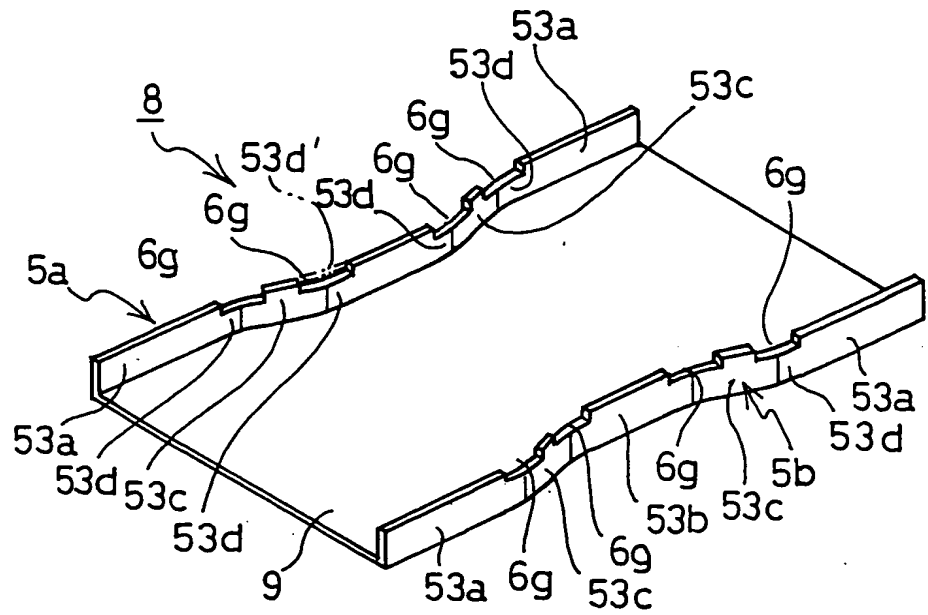


Fig. 63



# Fig. 64



# Fig. 65

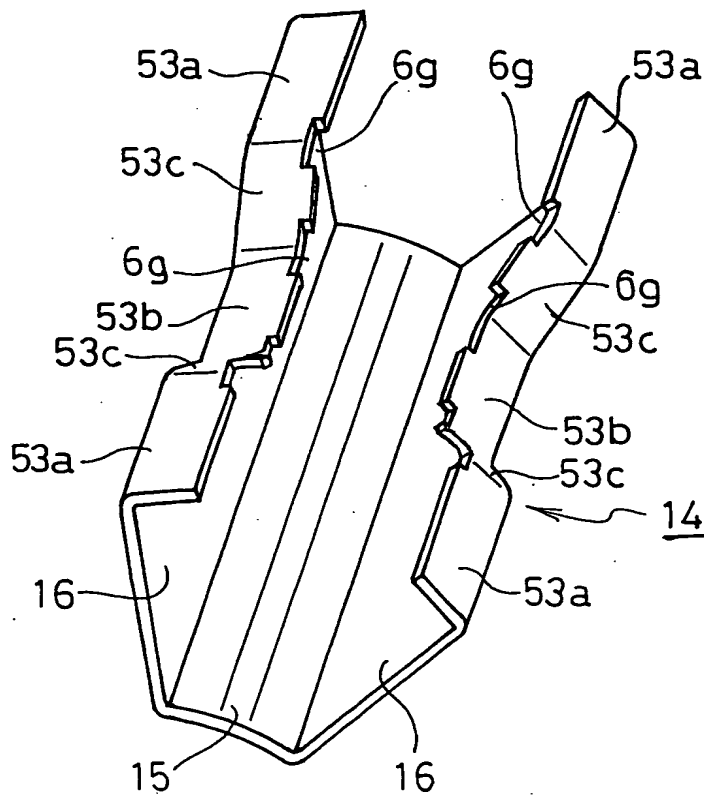


Fig. 66

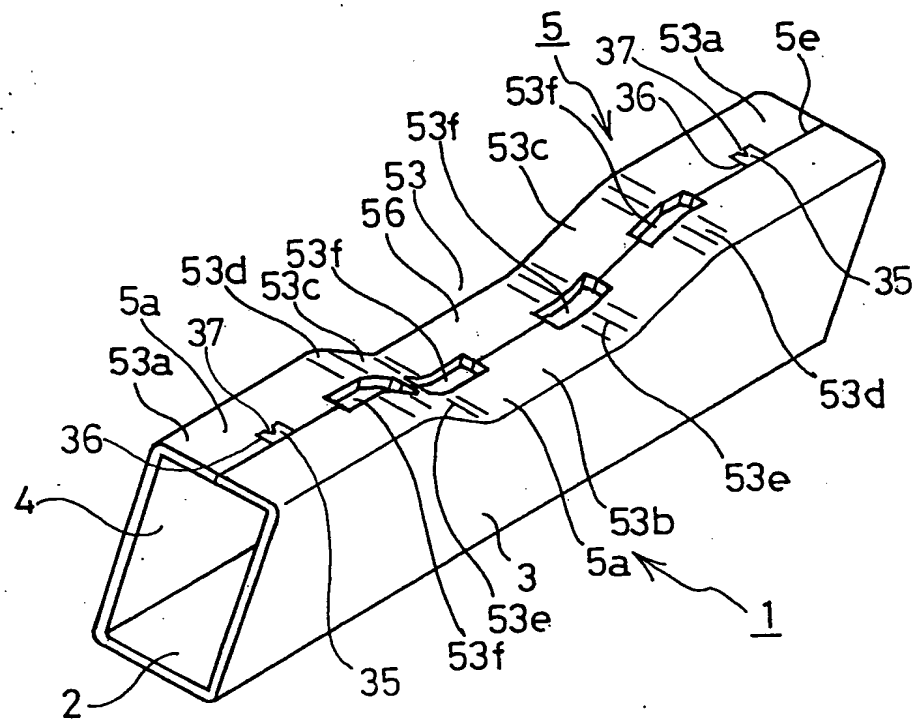
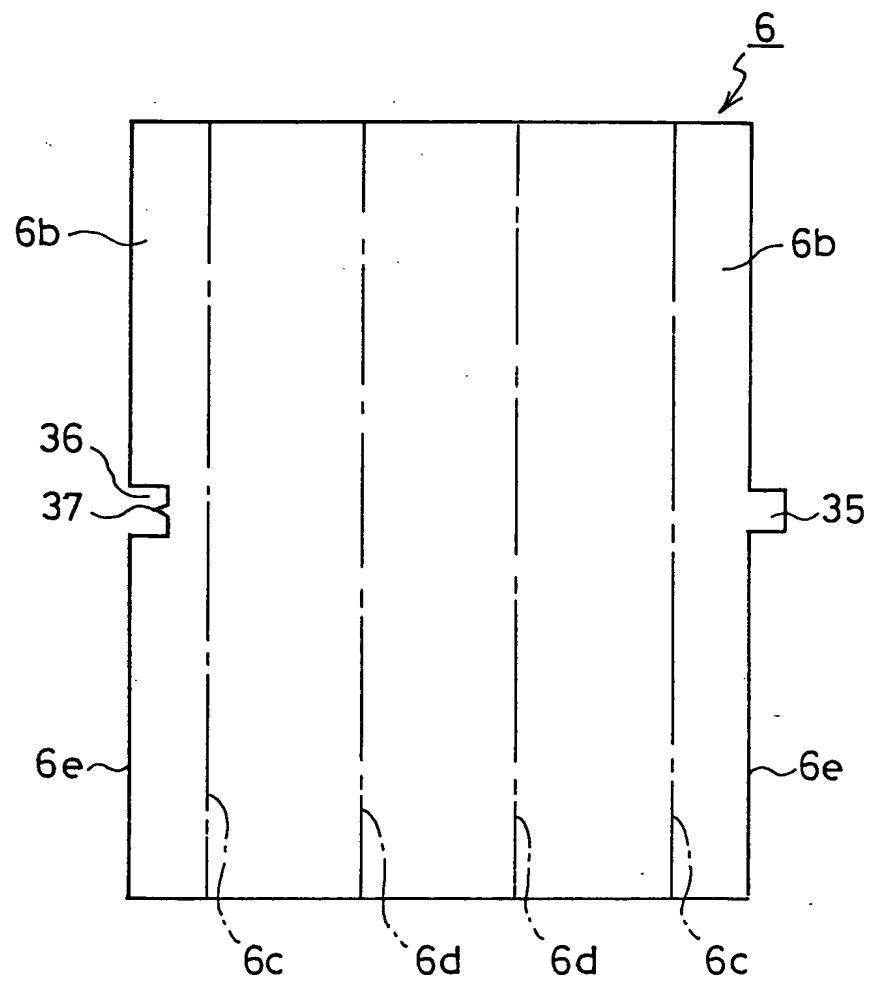


Fig. 67



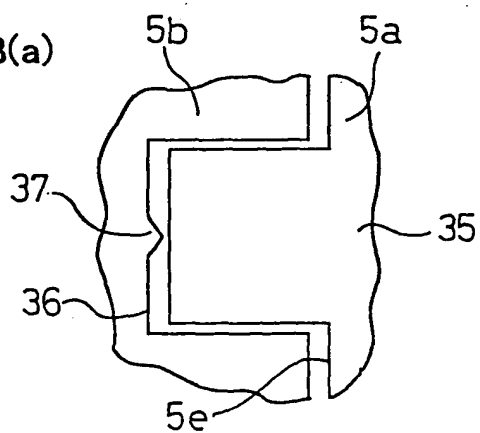




Fig. 69(a)

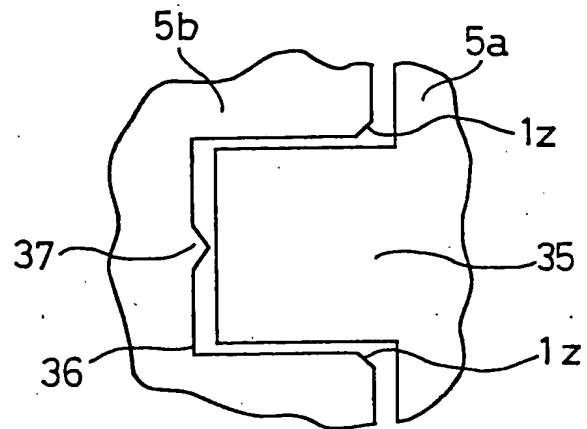


Fig. 69(b)

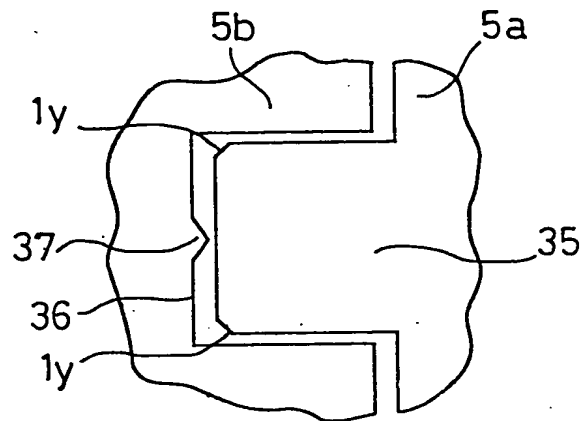


Fig. 69(c)

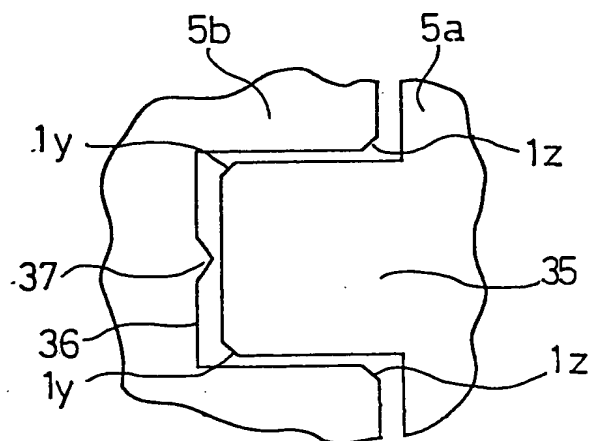


Fig. 70(a)

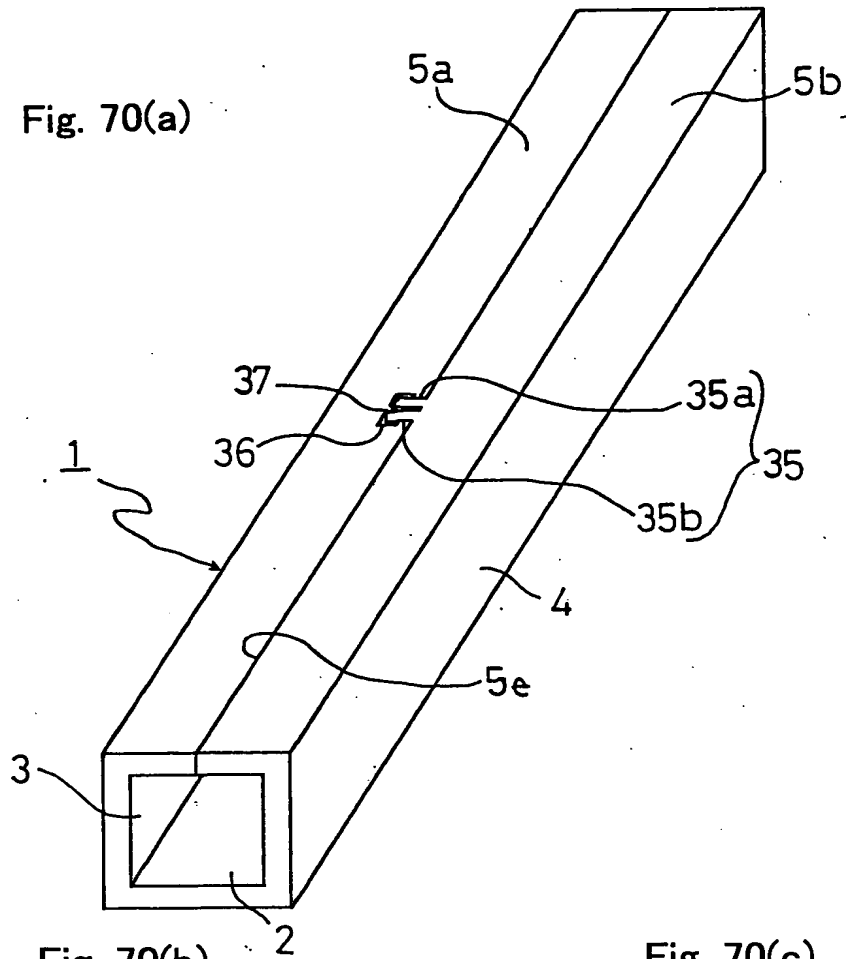


Fig. 70(b)

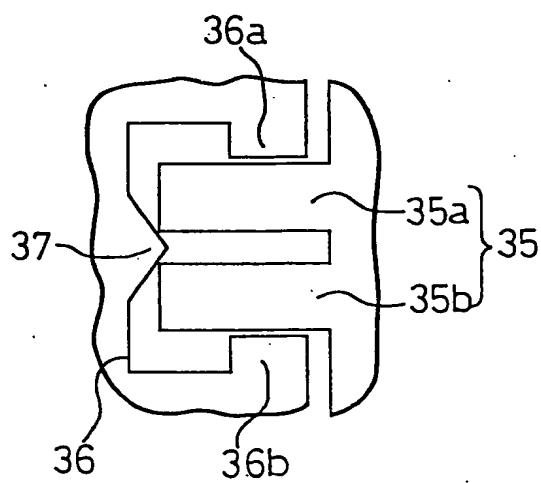


Fig. 70(c)

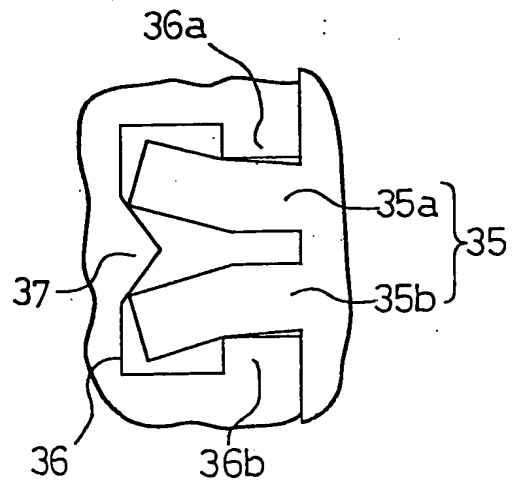


Fig. 71

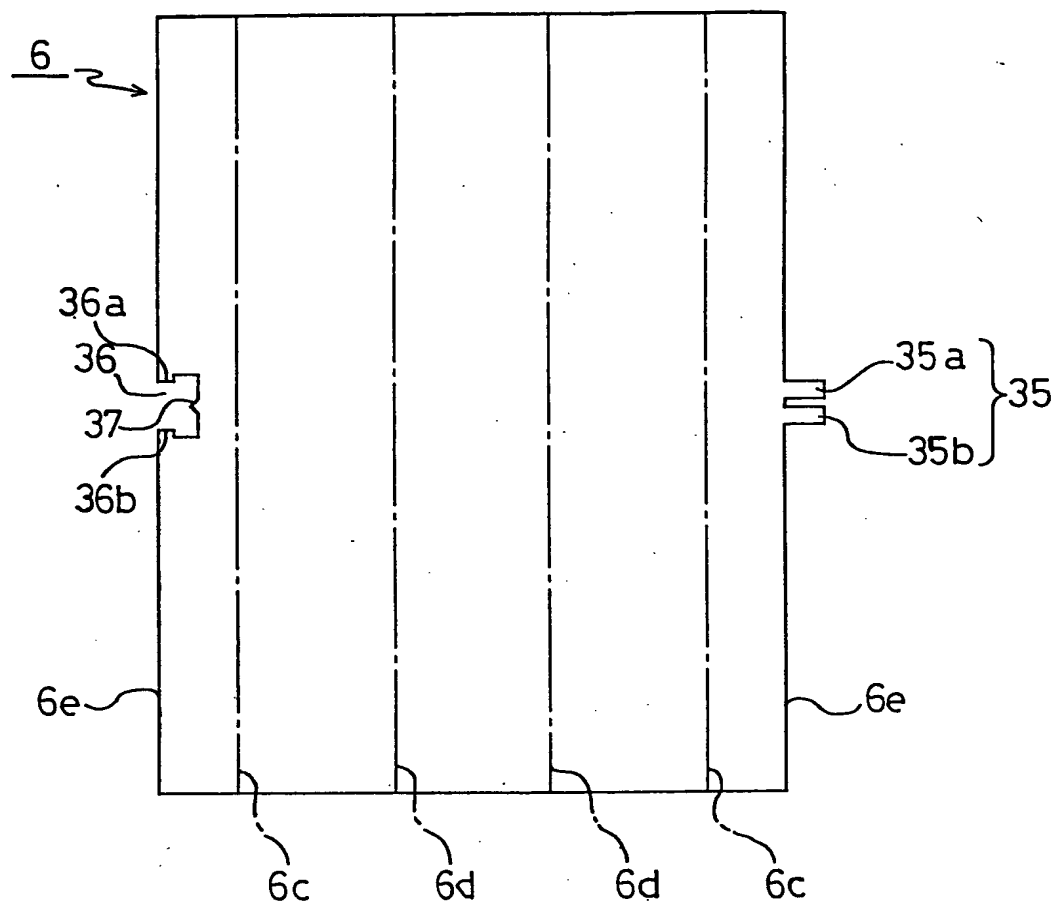


Fig. 72(a)

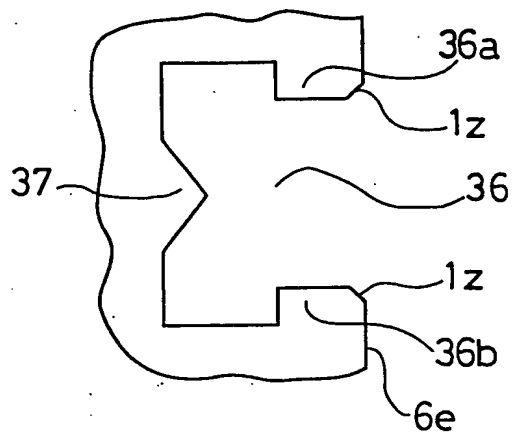


Fig. 72(b)

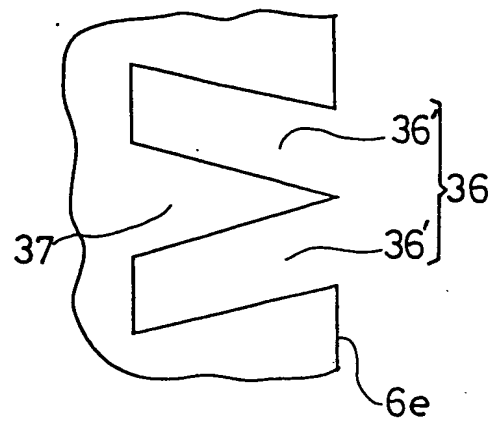


Fig. 72(c)

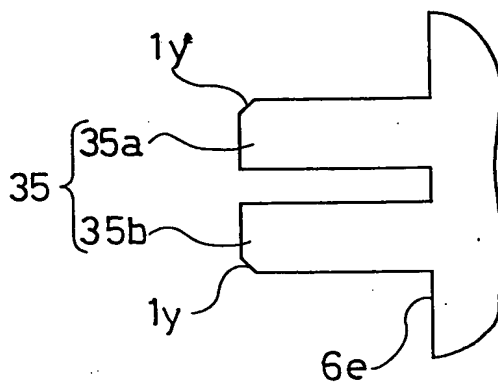


Fig. 72(d)

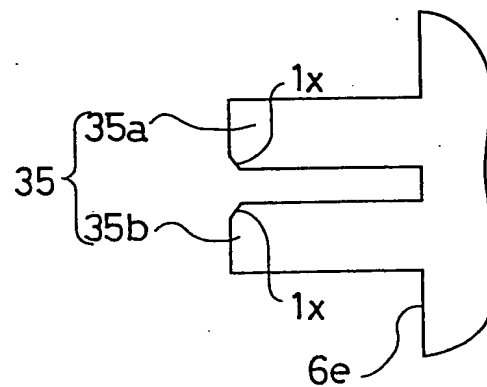


Fig. 72(e)

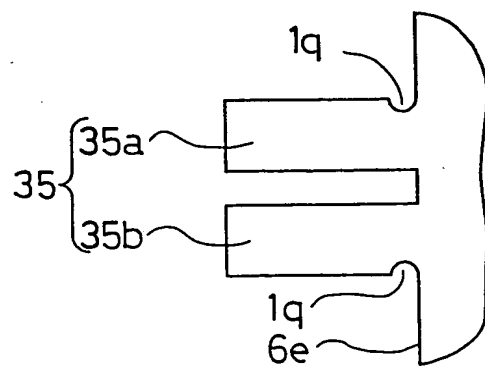


Fig. 72(f)

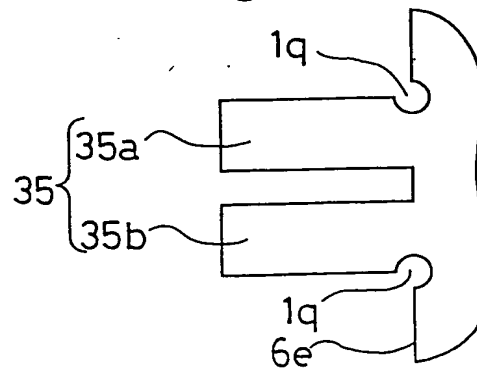


Fig. 73

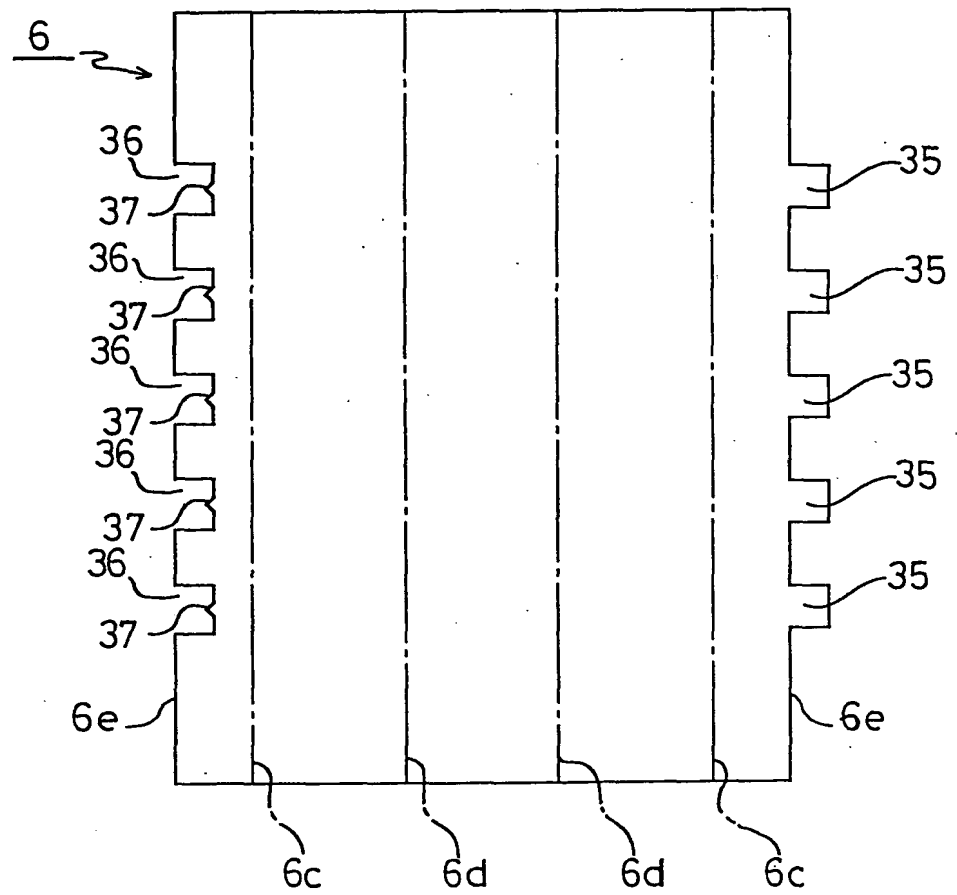


Fig. 74

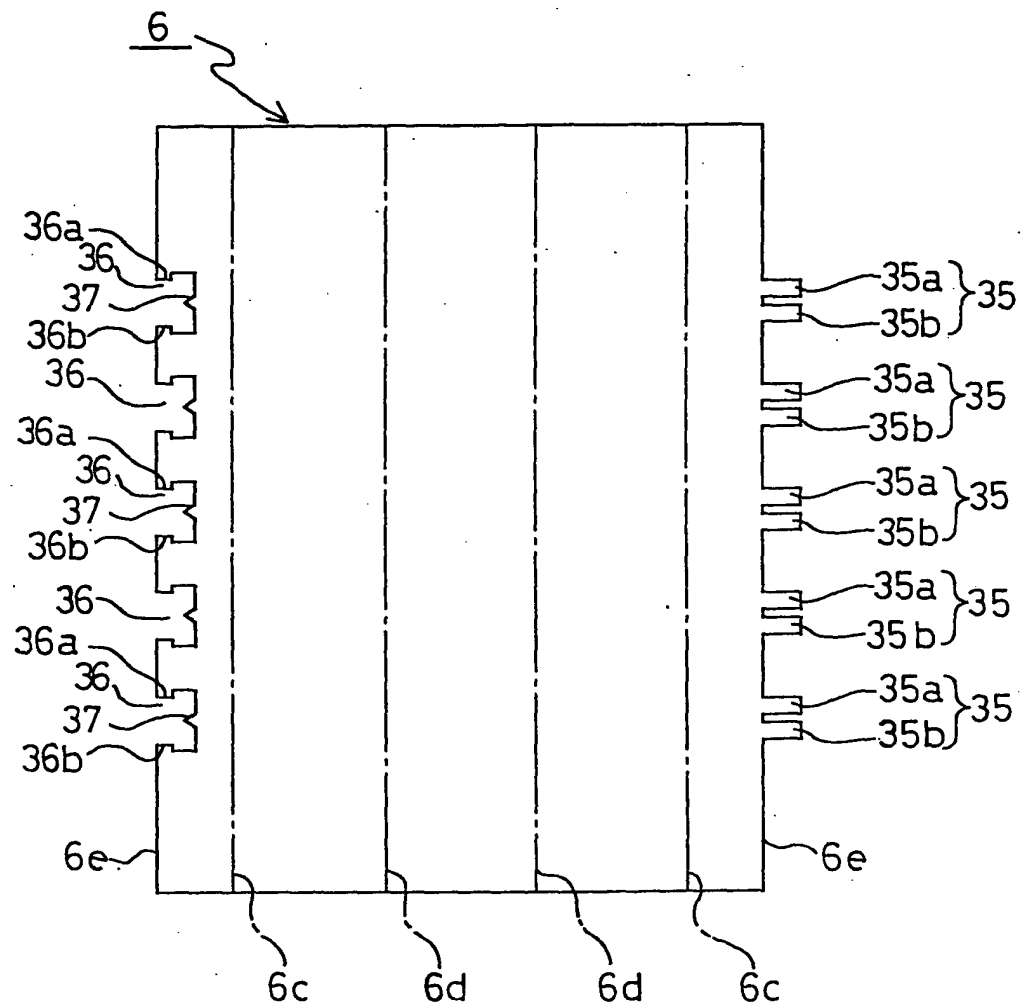


Fig. 75

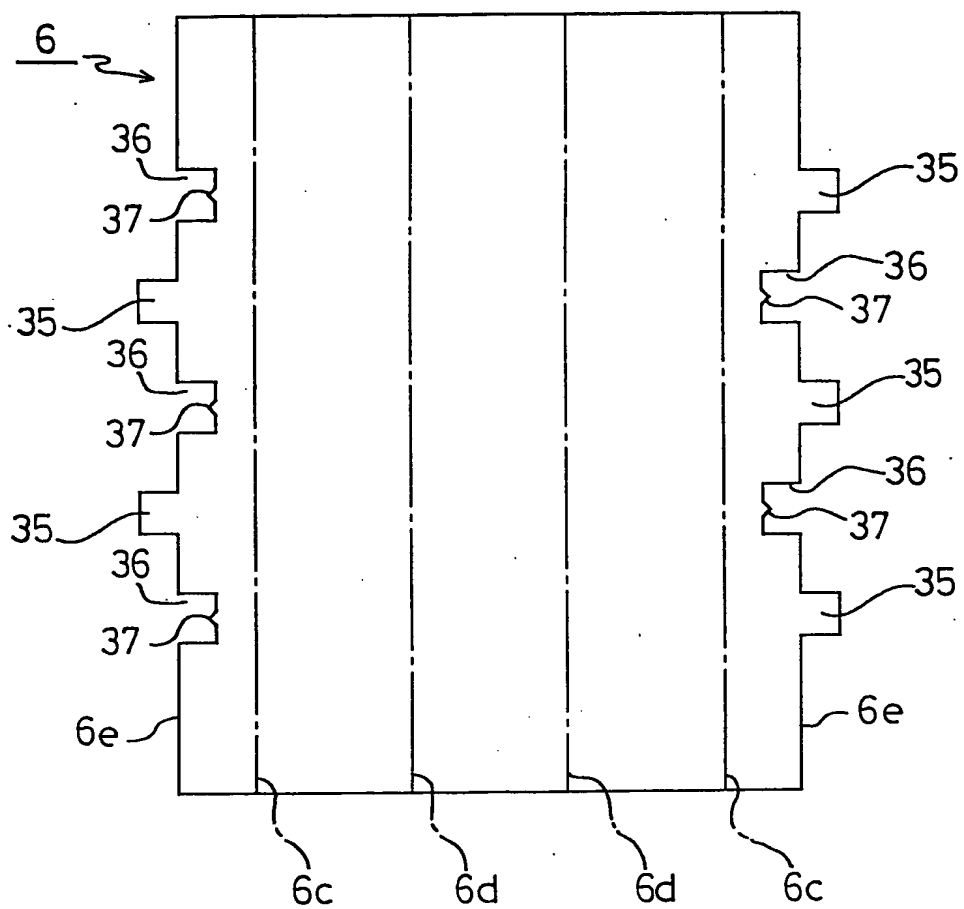
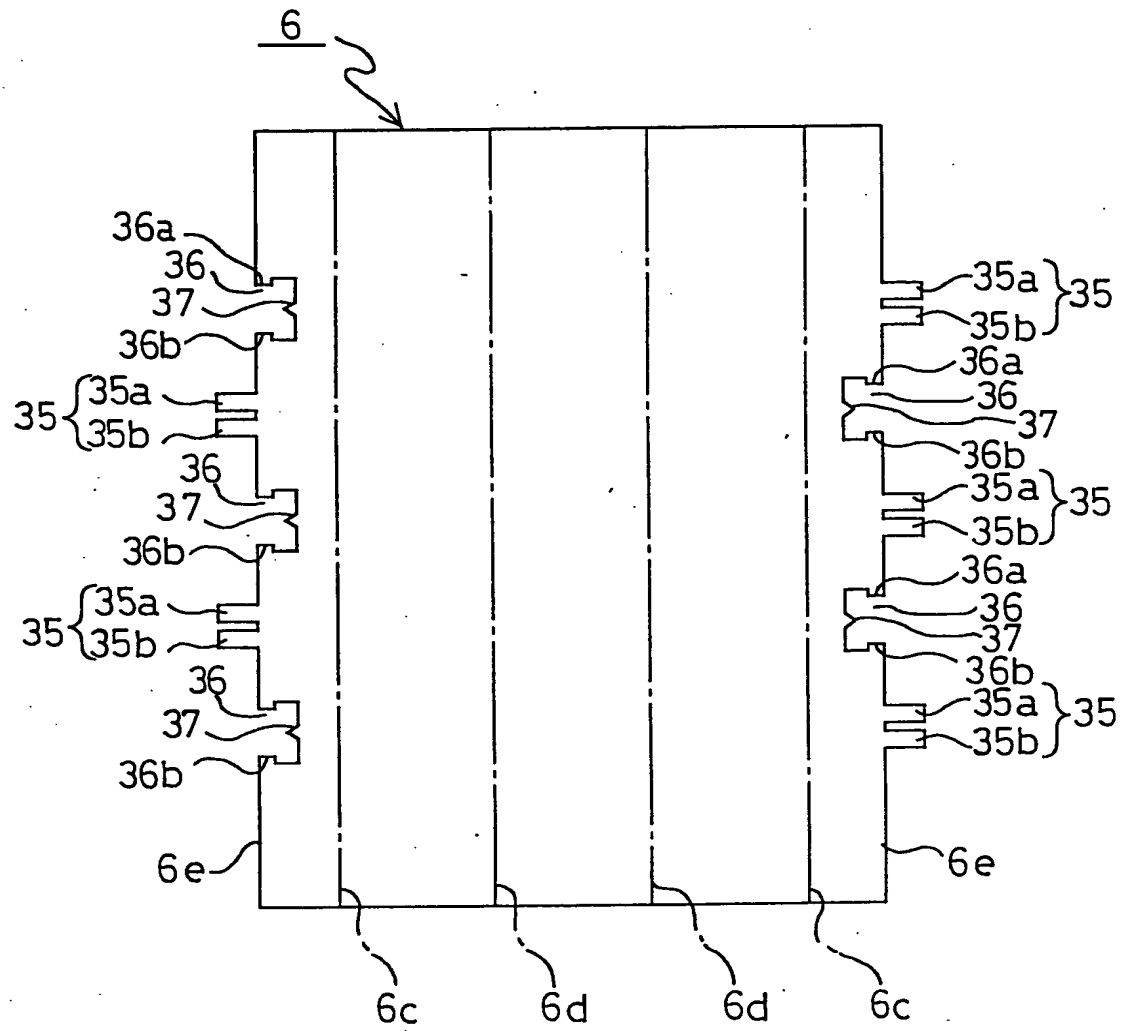
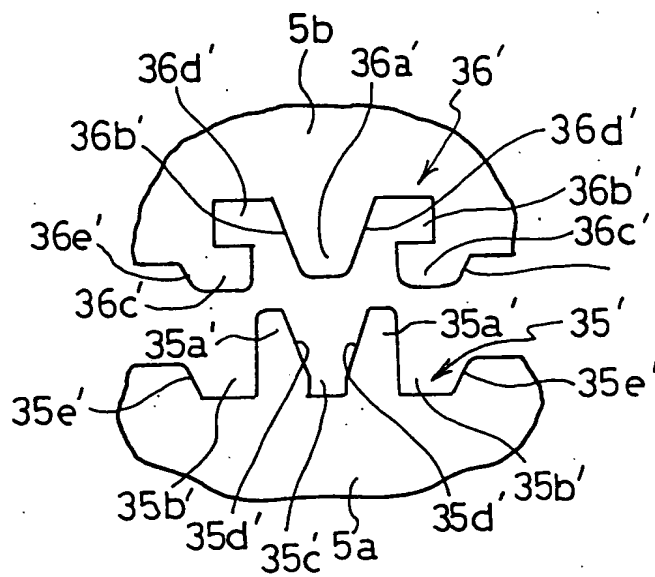


Fig. 76

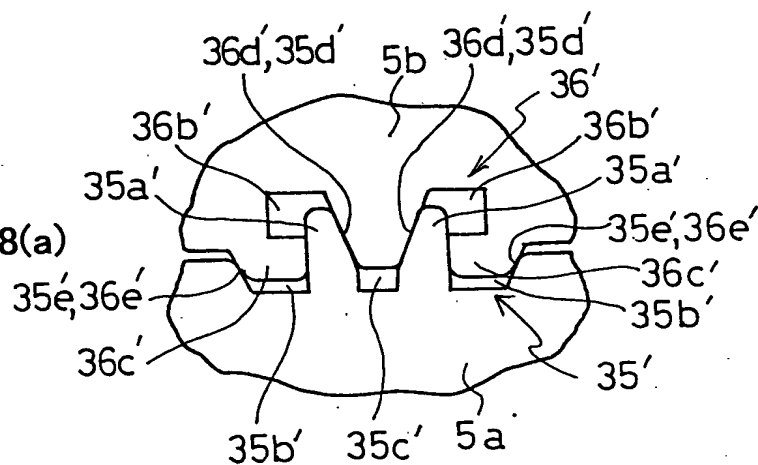




# Fig. 77



## Fig. 78(a)



## Fig. 78(b)

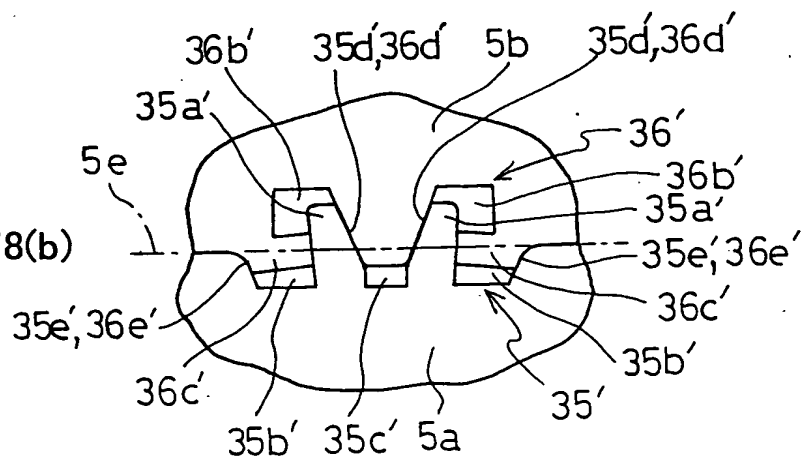


Fig. 79

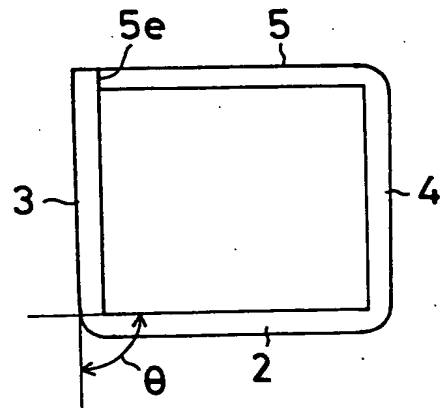


Fig. 80(a)

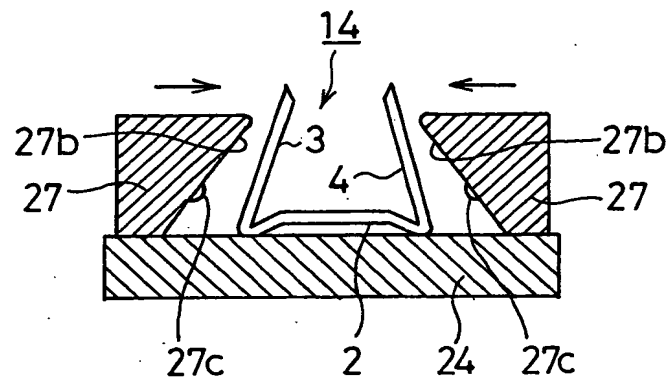


Fig. 80(b)

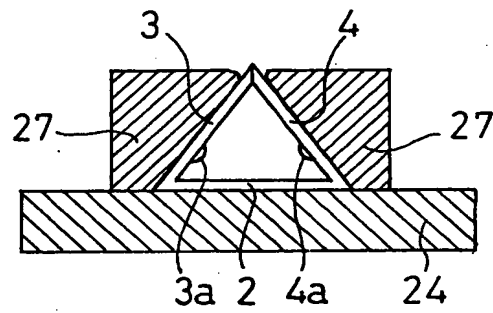


Fig. 80(c)

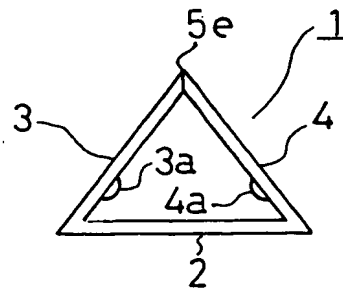


Fig. 81(a)

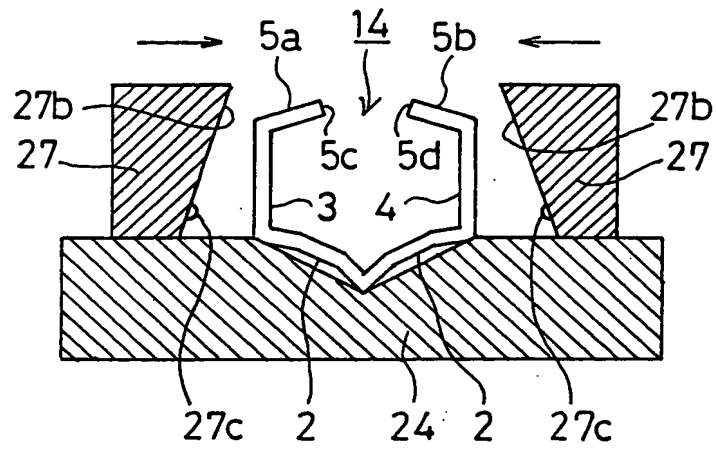


Fig. 81(b)

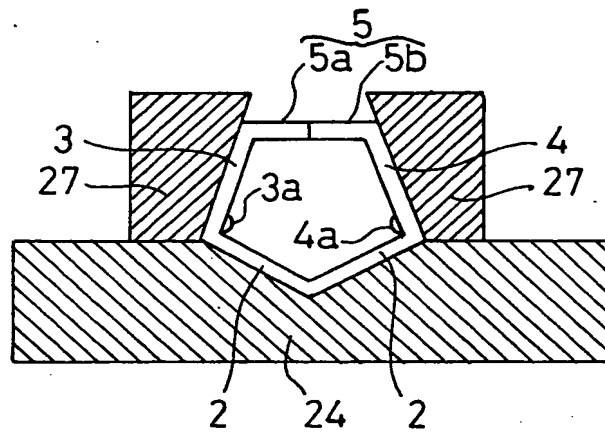


Fig. 81(c)

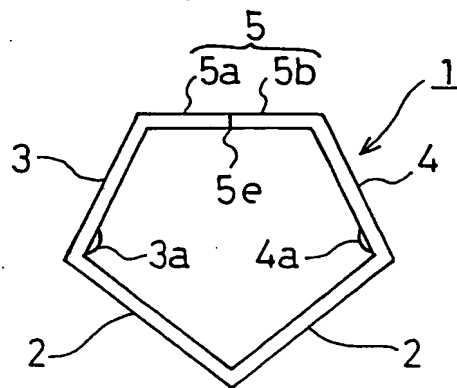


Fig. 82(a)

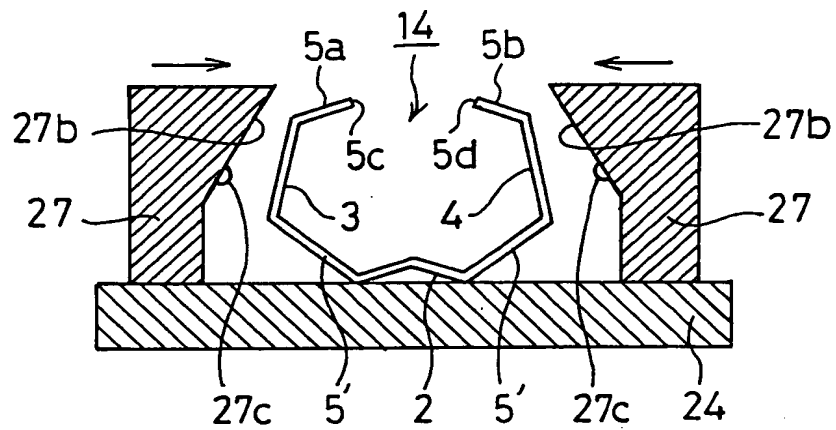


Fig. 82(b)

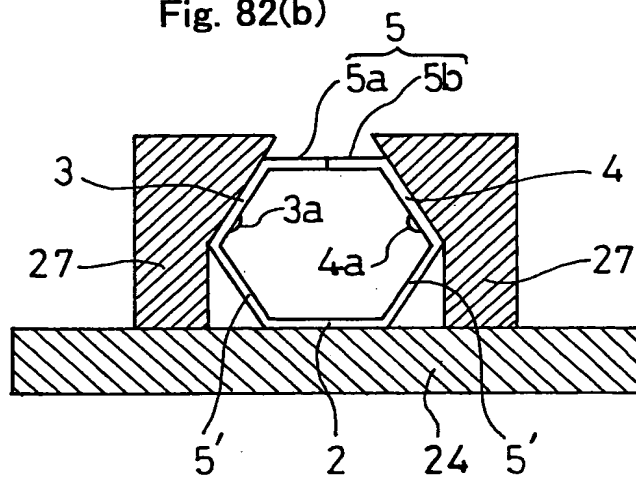


Fig. 82(c)

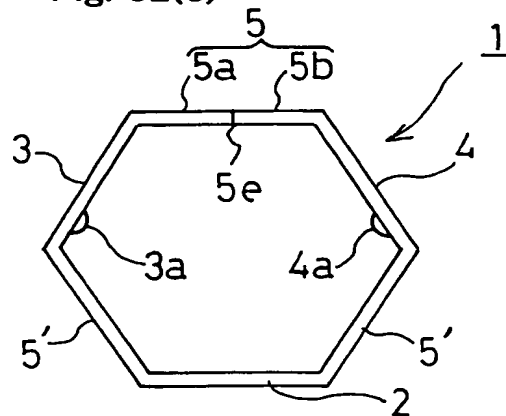


Fig. 83(a)

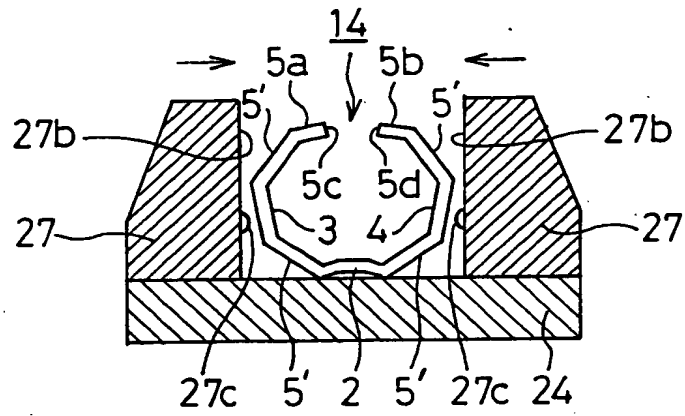


Fig. 83(b)

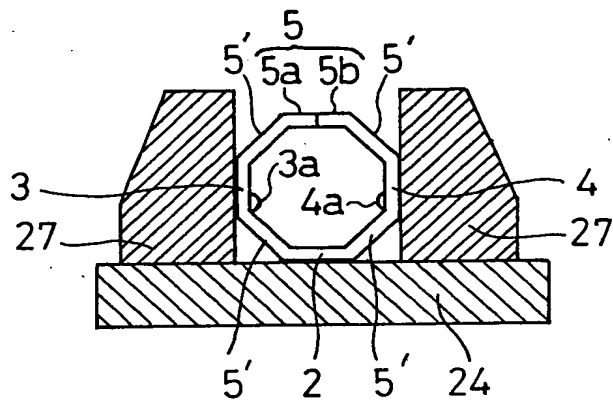


Fig. 83(c)

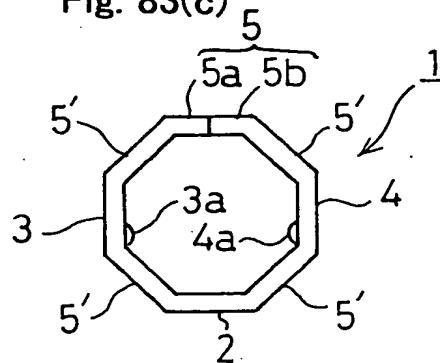


Fig. 84

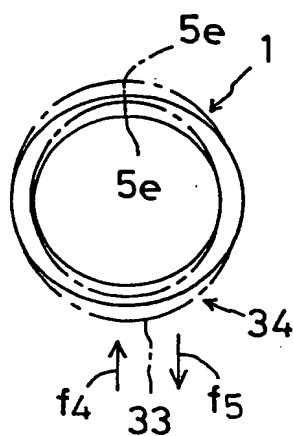


Fig. 85(a)

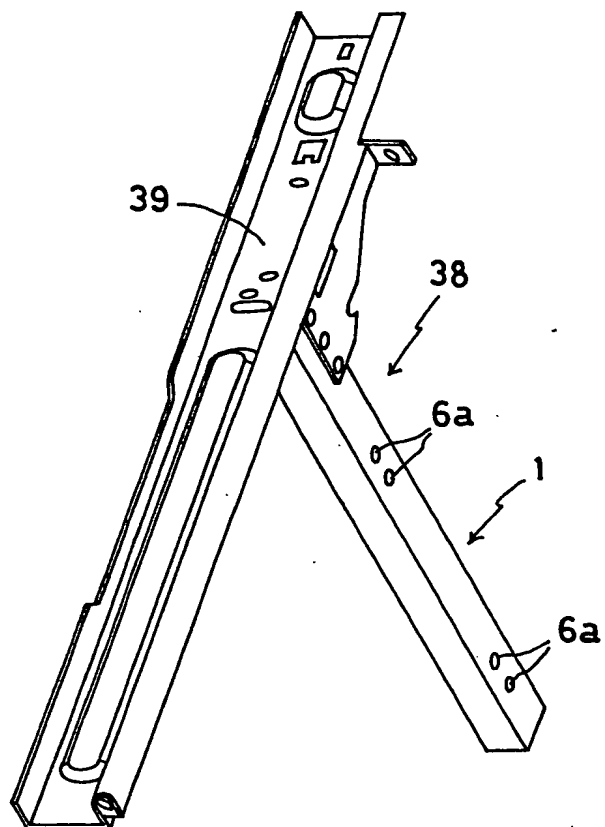
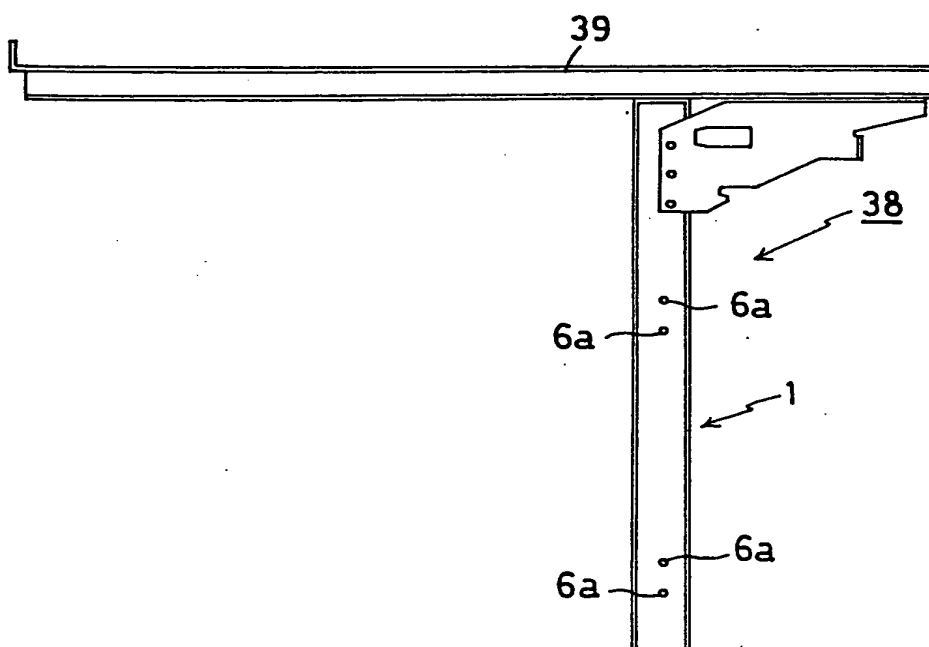
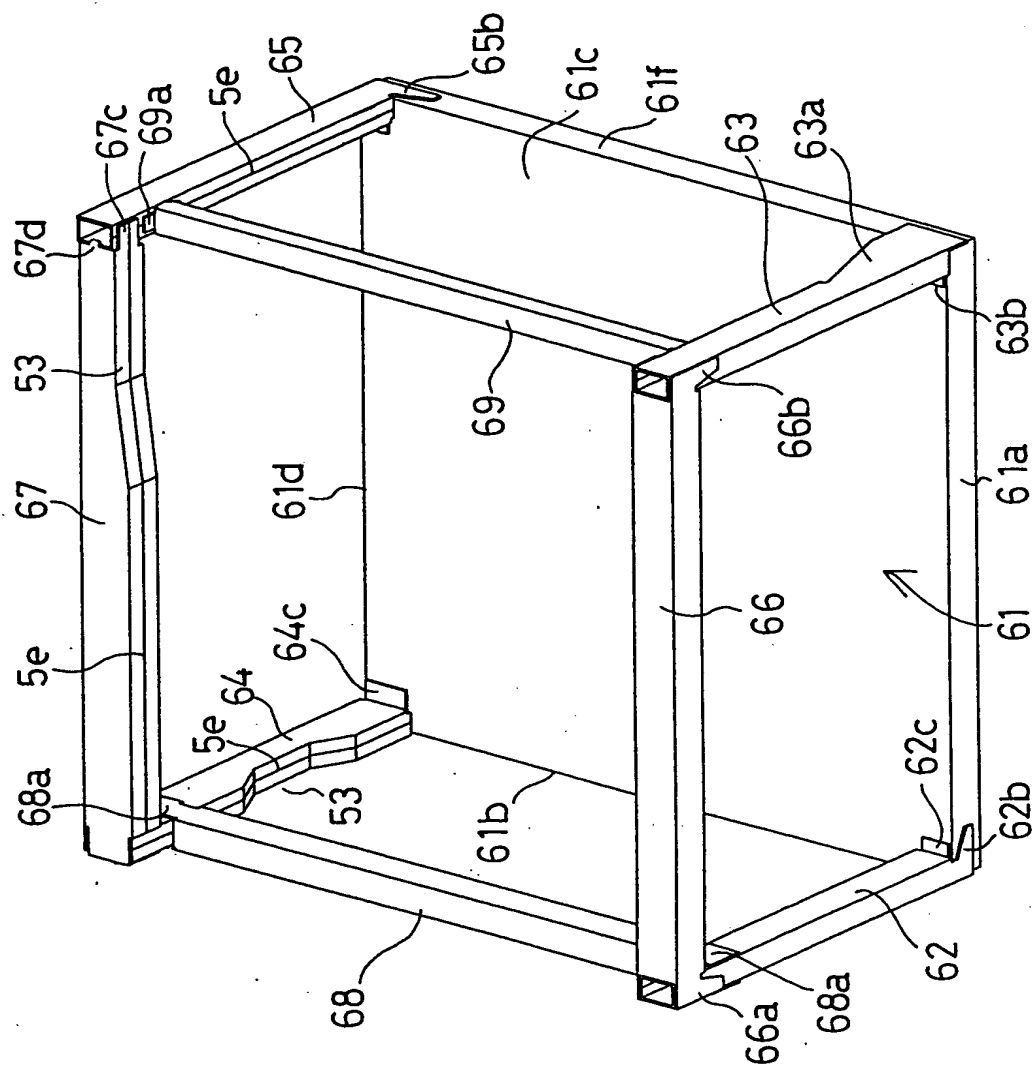


Fig. 85(b)





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Fi. 88



File 87

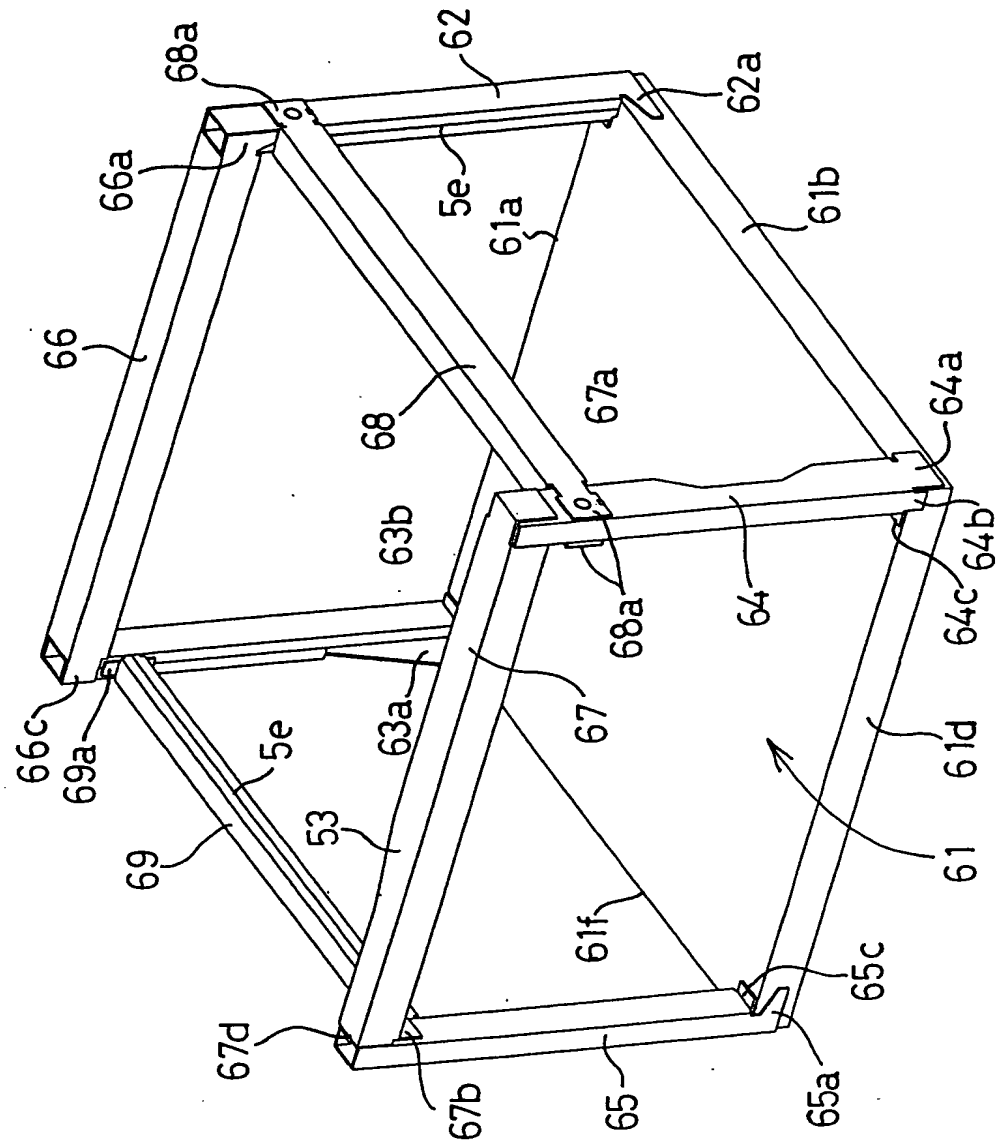


Fig. 88

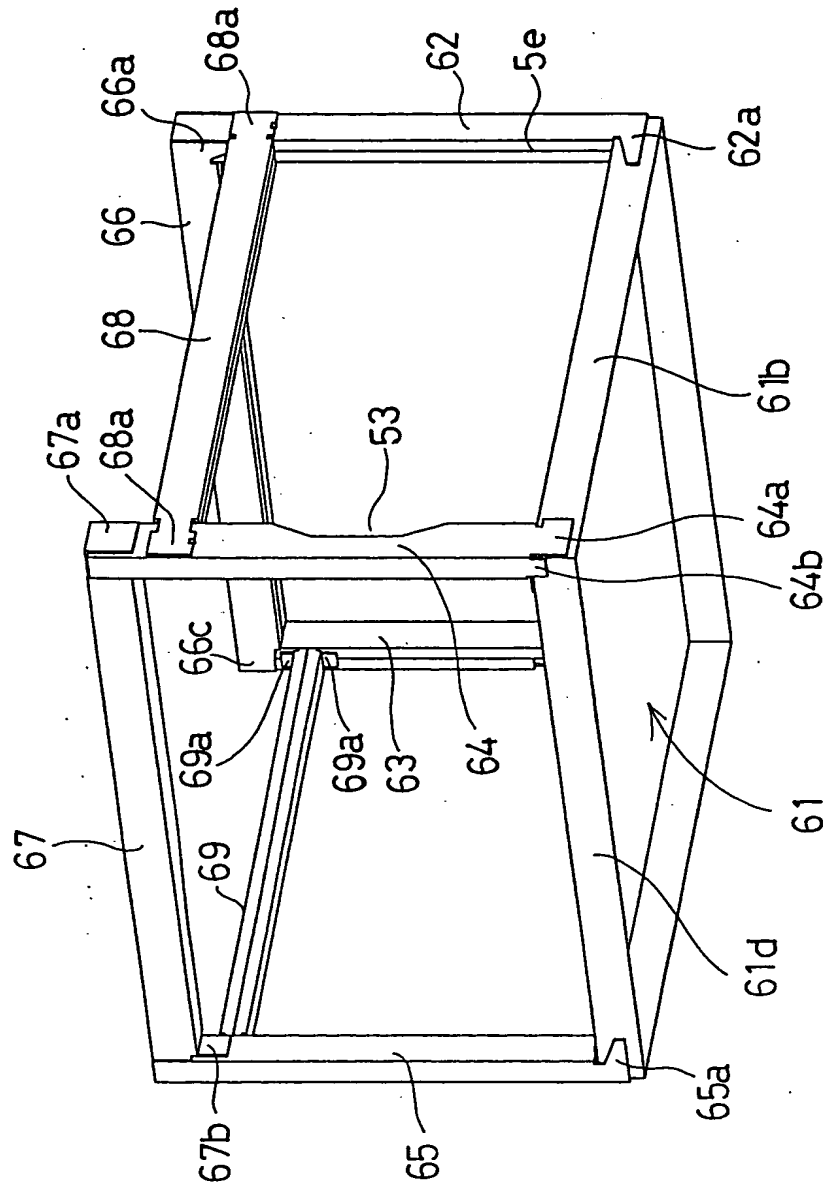


Fig. 89

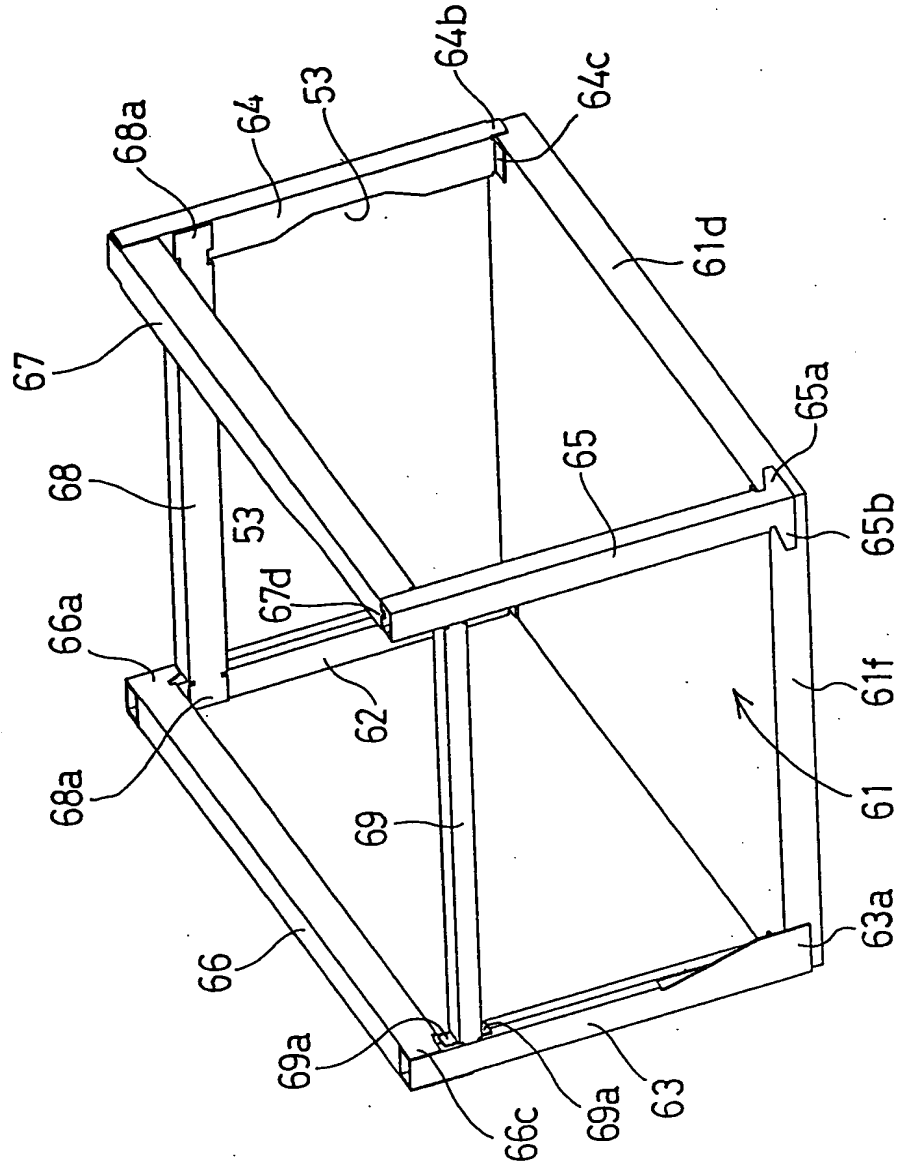


Fig. 90

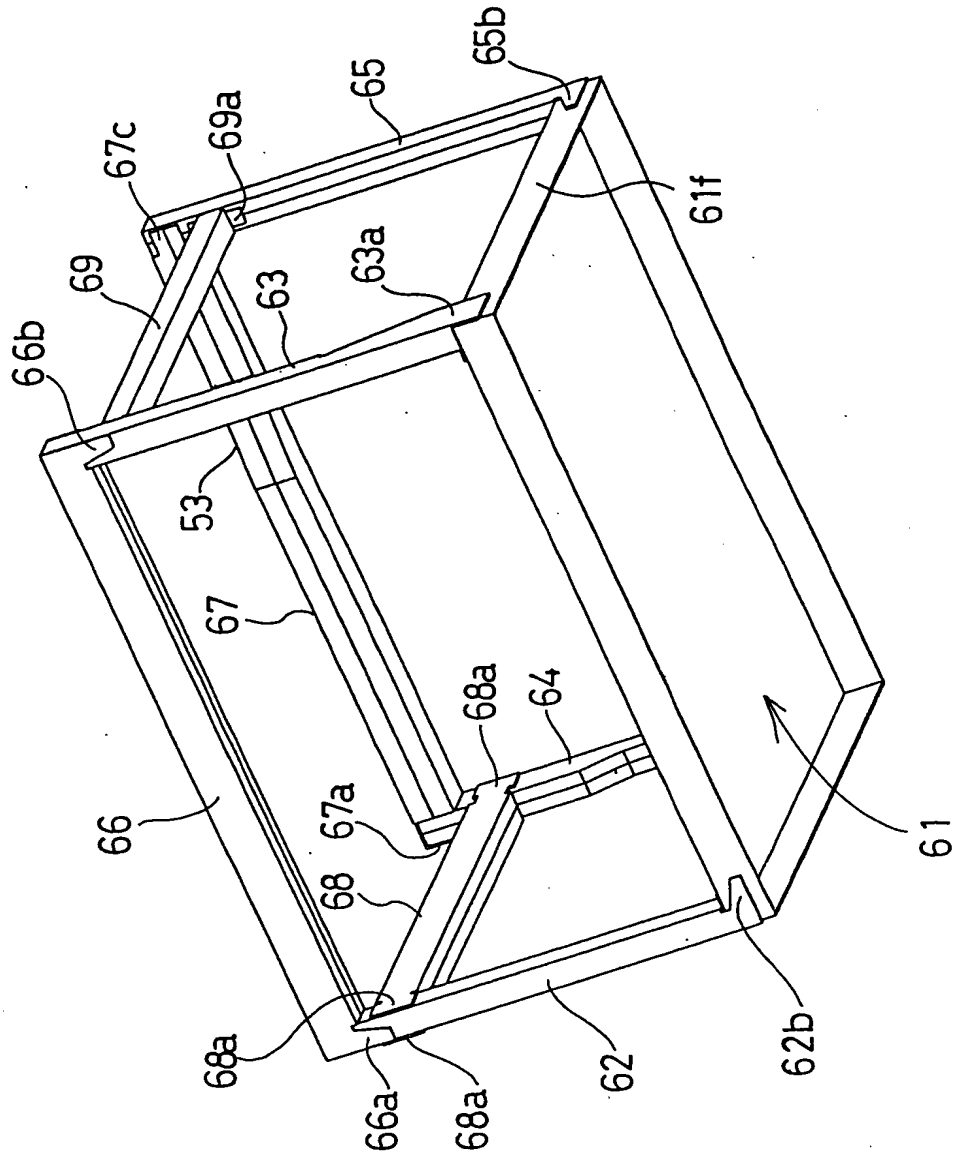


Fig. 91

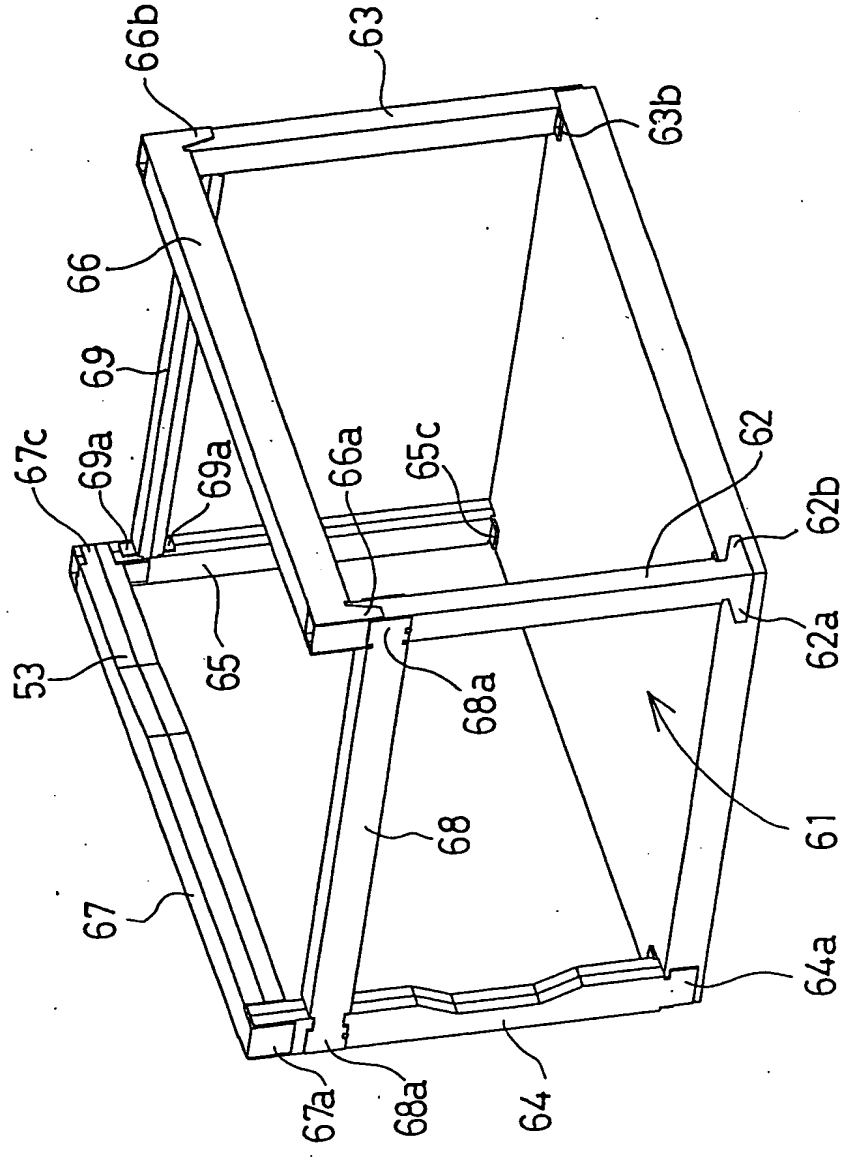
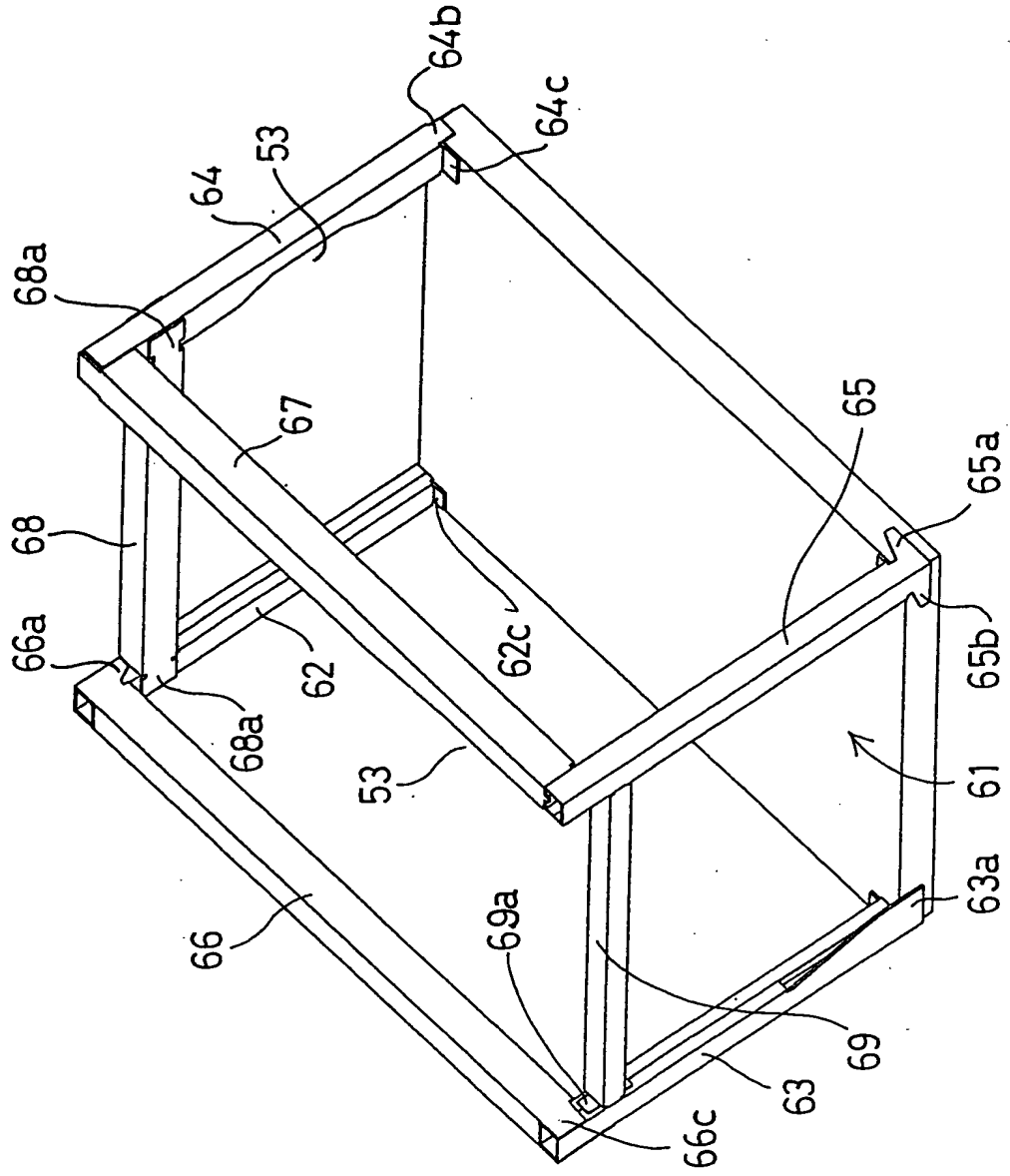


Fig. 92



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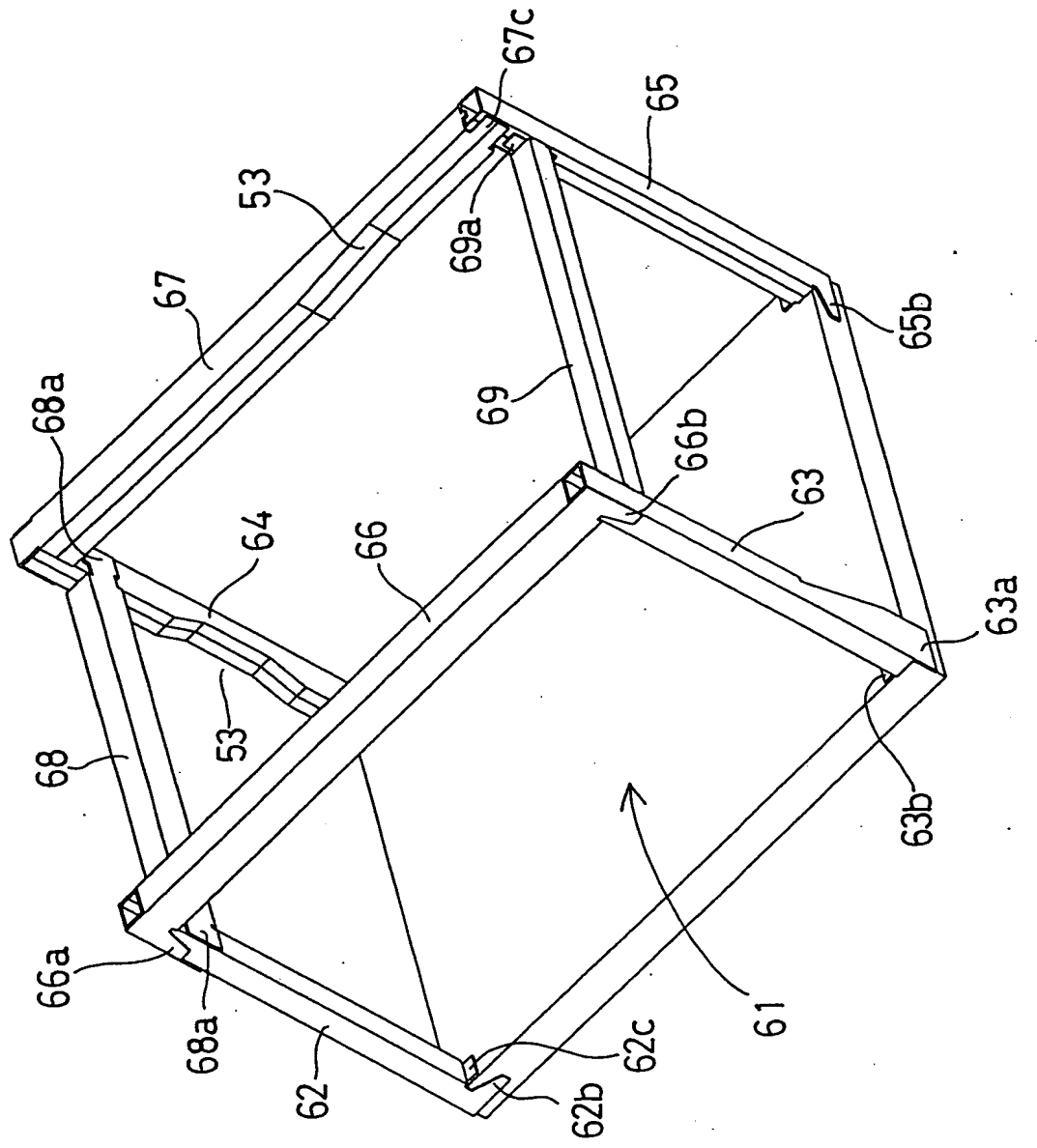




Fig. 94

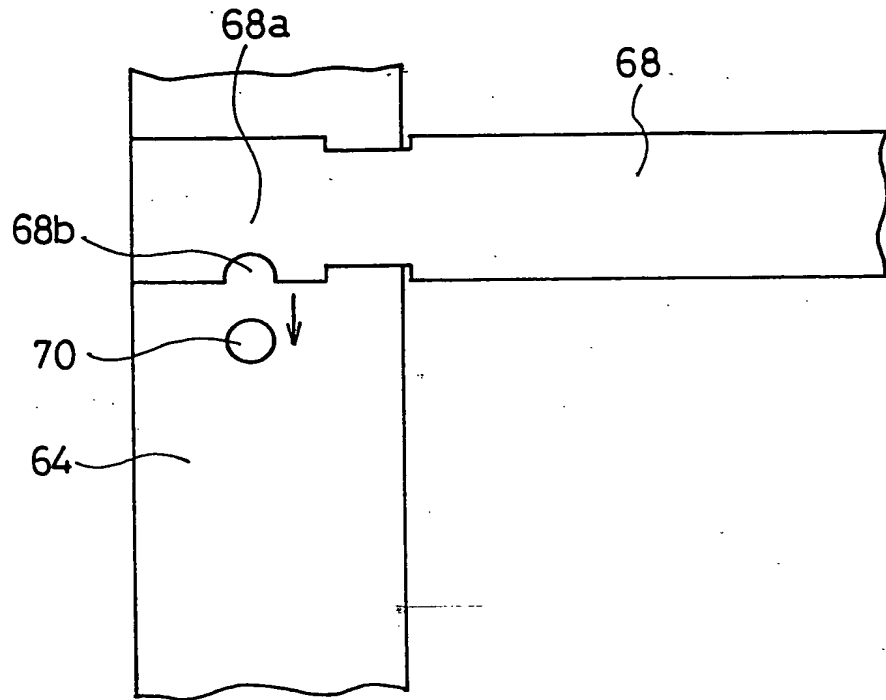
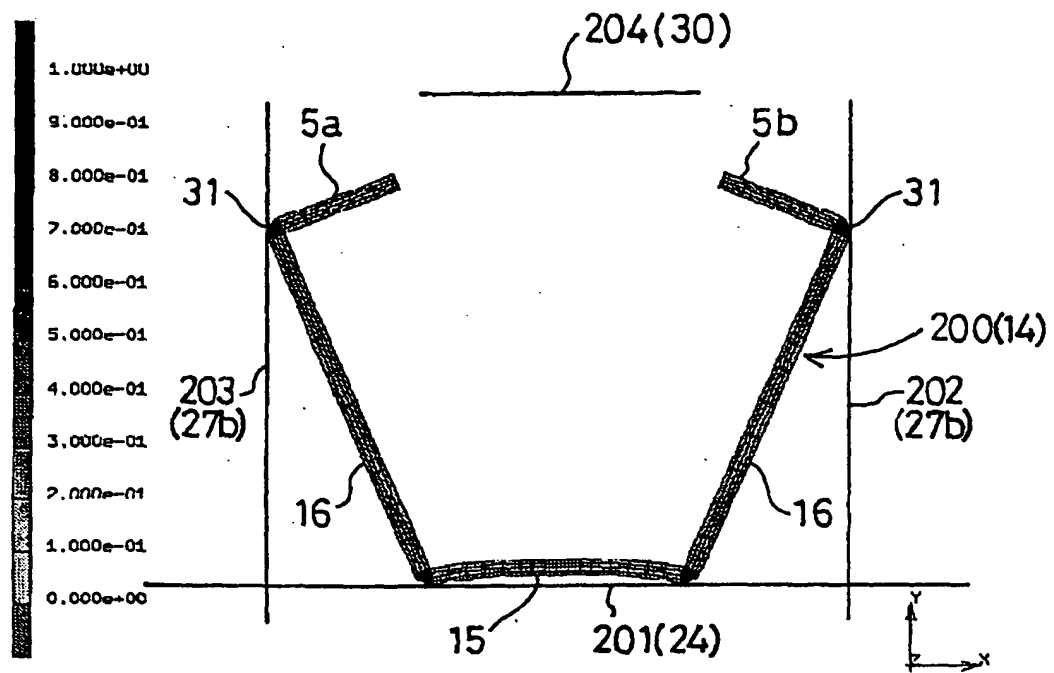
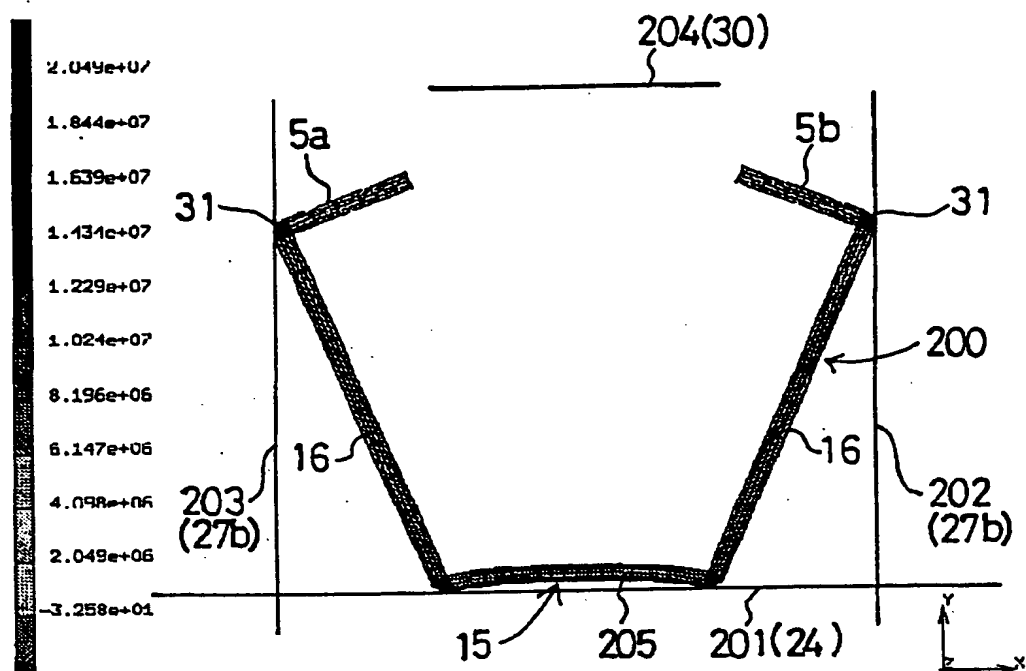


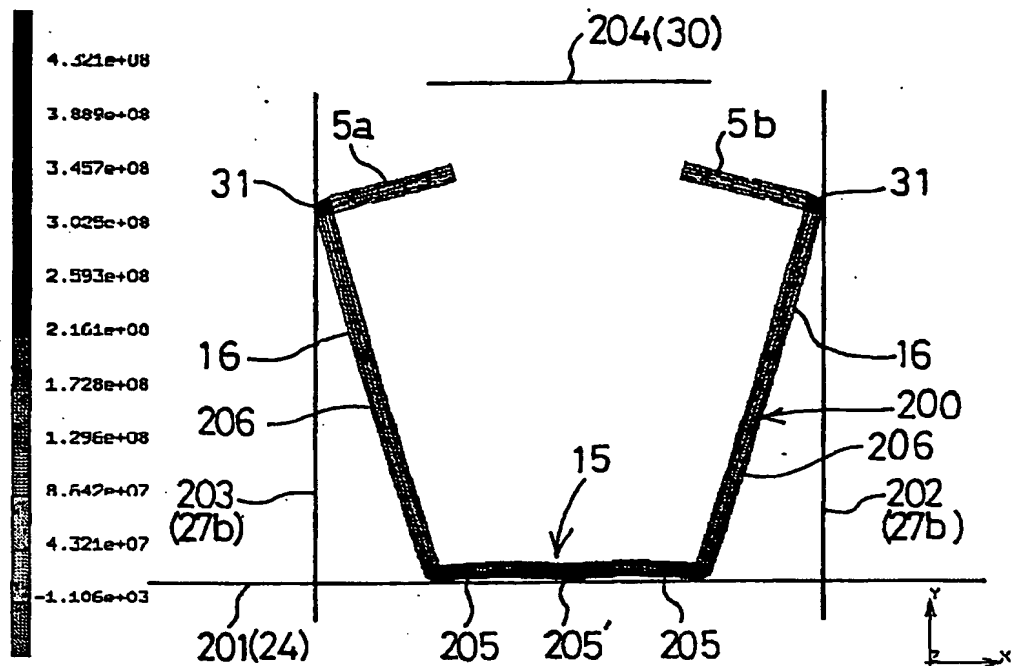
Fig. 95



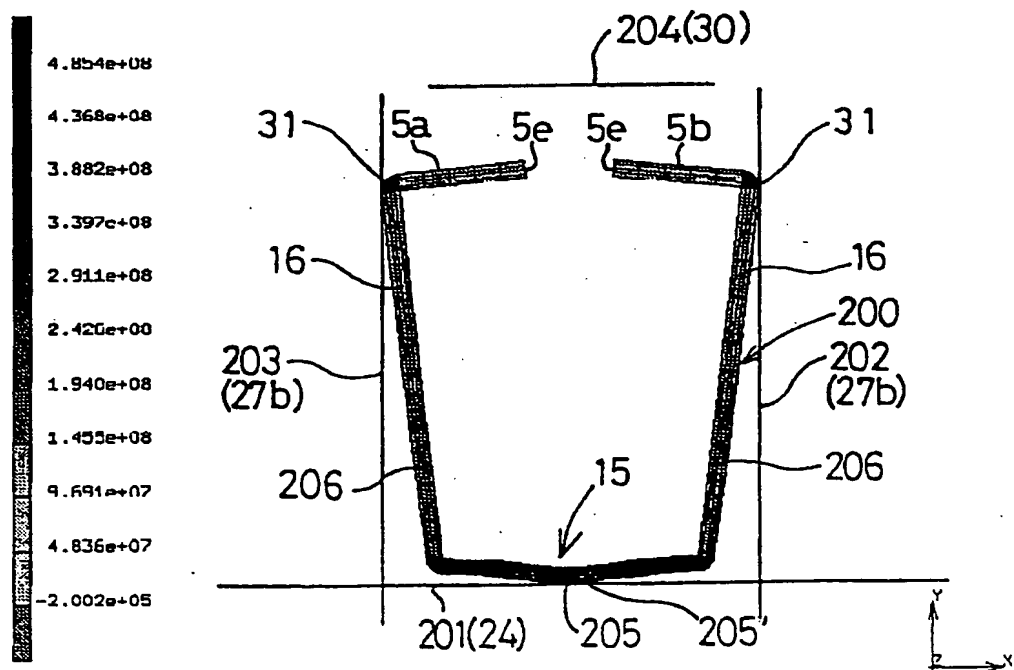
# Fig. 96



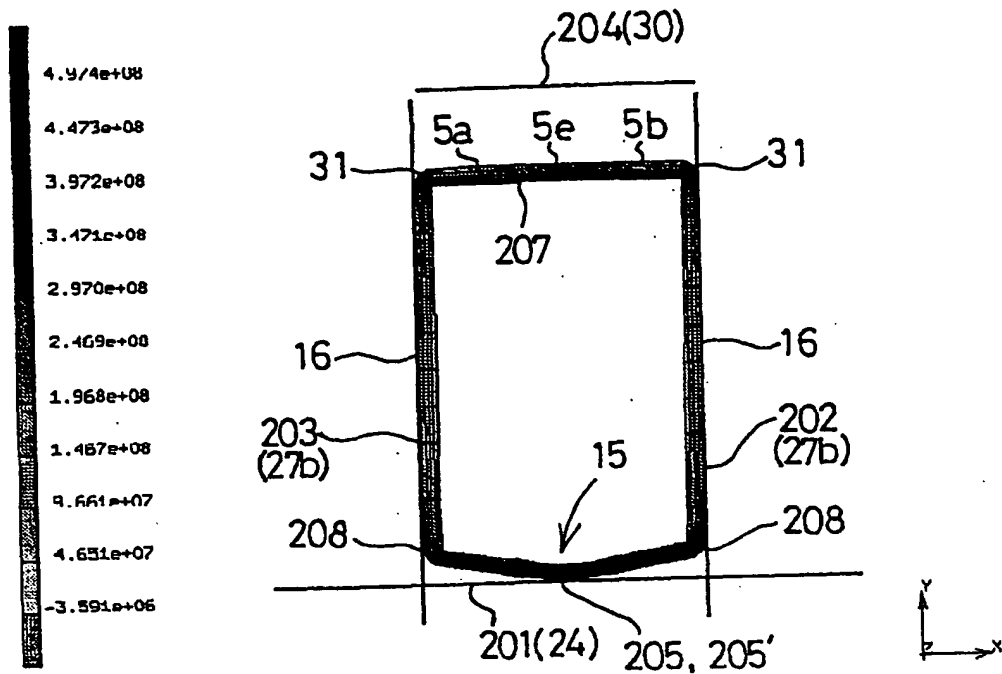
# Fig. 97



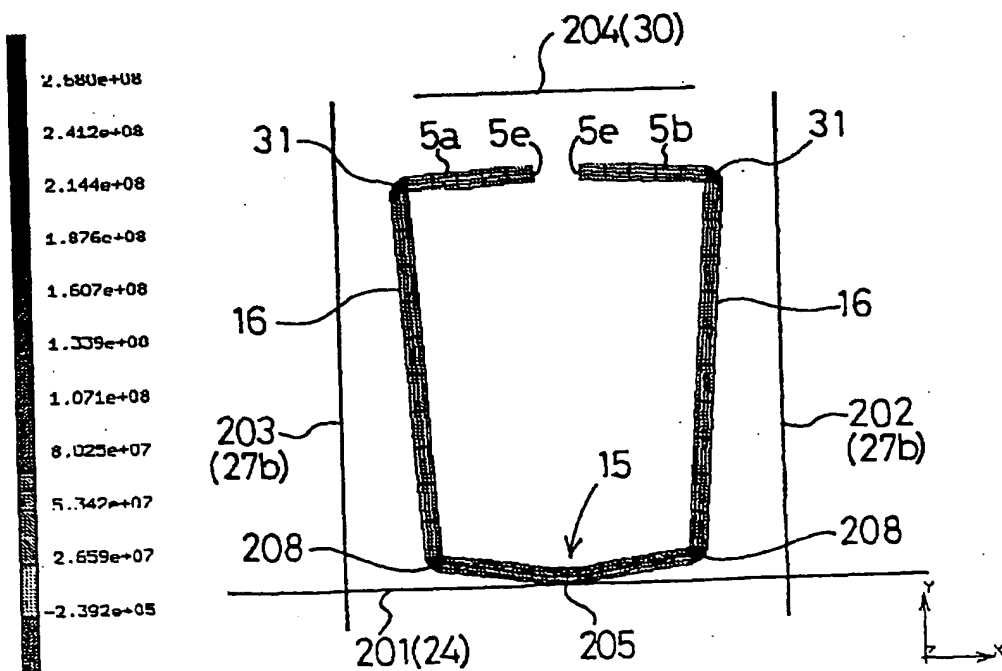
# Fig. 98



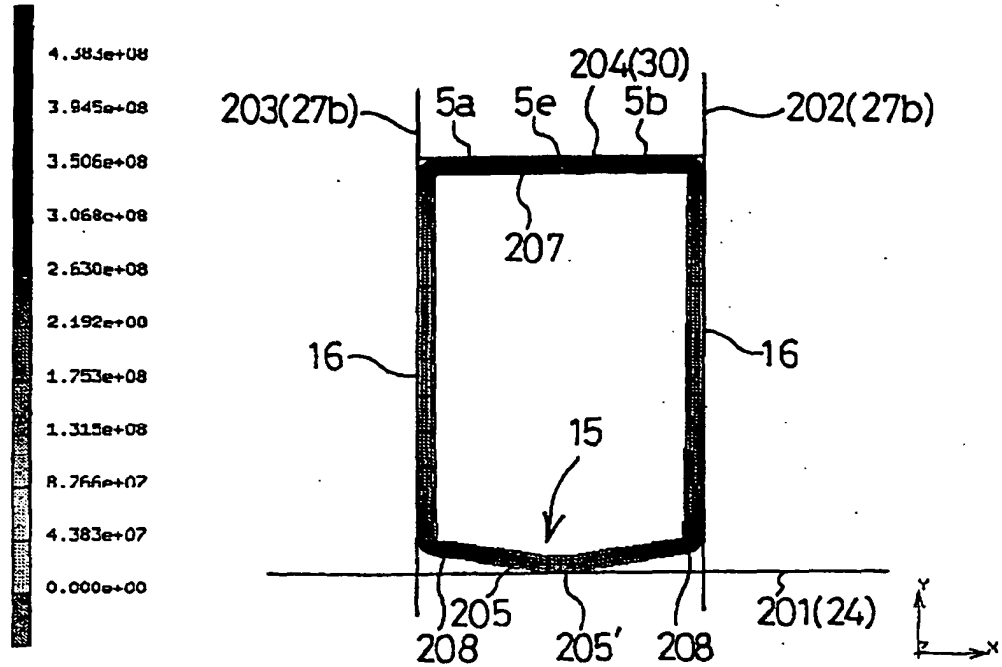
# Fig. 99



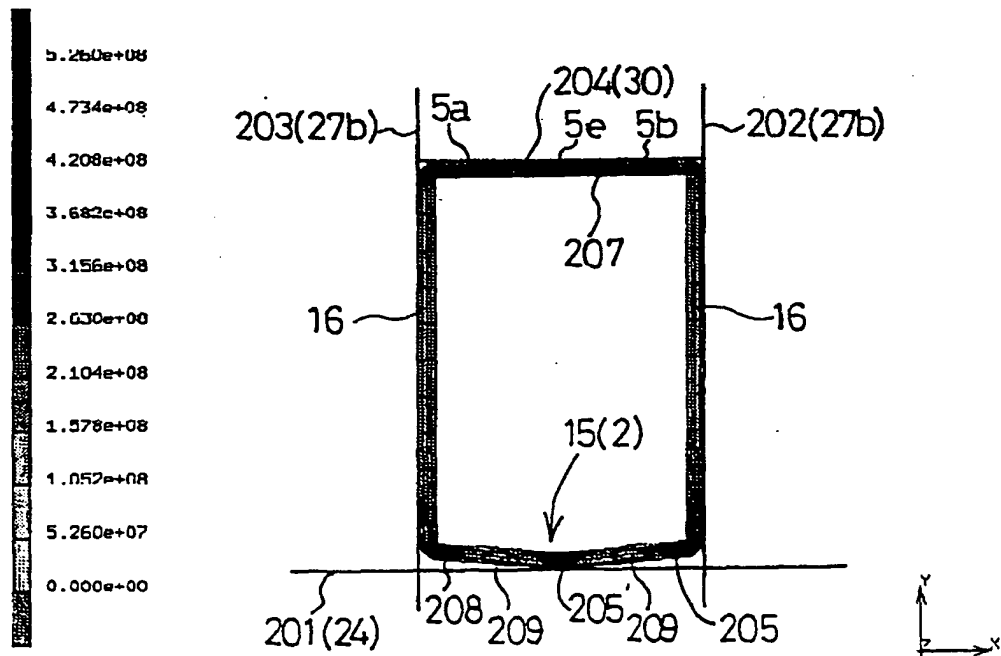
# Fig. 100



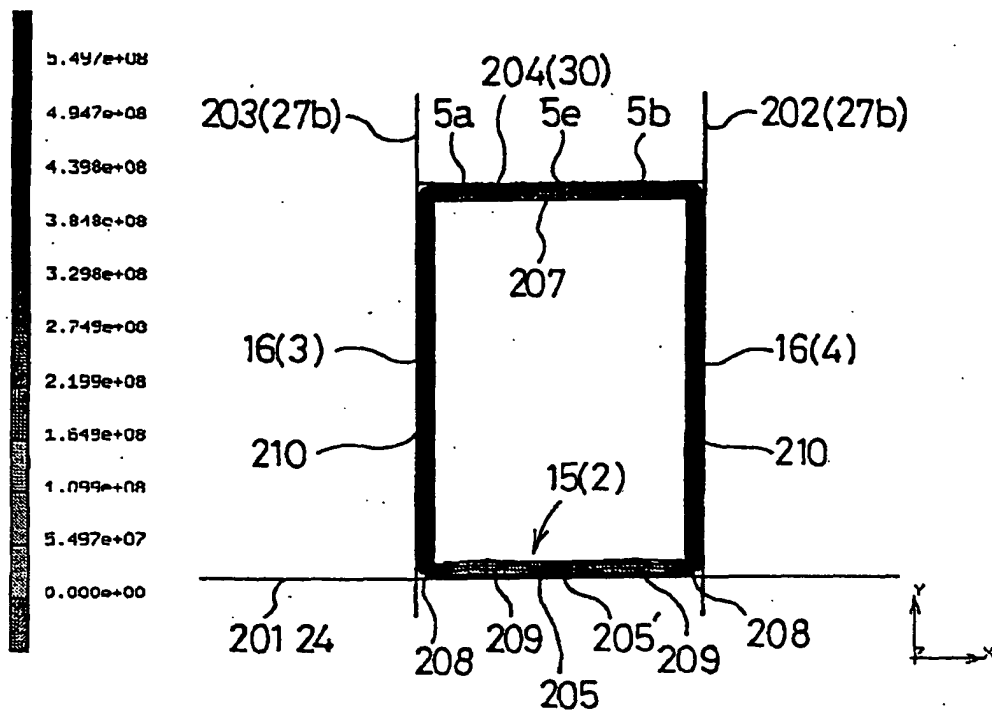
# Fig. 101



# Fig. 102



**Fig. 103**



**Fig. 104**

